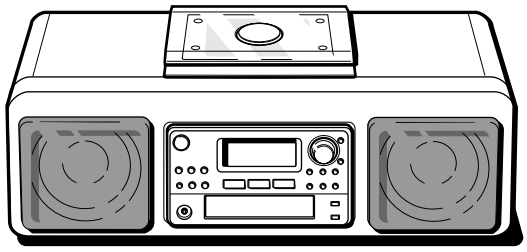
aiwa
SERVICE

CSD-NS1 U(M),K(M) EZ(M)



SERVICE MANUAL

COMPACT DISC STEREO
CASSETTE RECEIVER

BASIC TAPE MECHANISM : AZM-1 A1NF
BASIC CD MECHANISM : KSM-213CJM

aiwa

S/M Code No. 09-015-356-2R2

TABLE OF CONTENTS

SPECIFICATIONS 3
PROTECTION OF EYES FROM LASER BEAM DURING SERVICING 4
Precaution to replace Optical block 5
ELECTRICAL MAIN PARTS LIST 6-10
TRANSISTOR ILLUSTRATION-1/1 11
FL (LCD, 4213A-30P2N) GRID ASSIGNMENT/ANODE CONNECTION-1/1 12
BLOCK DIAGRAM-1/1 13
SCHEMATIC DIAGRAM-1/6 (MAIN 1/3) 14
WIRING-1/10 (MAIN 1/3) 15
SCHEMATIC DIAGRAM-2/6 (MAIN 2/3) 16
WIRING-2/10 (MAIN 2/3) 17
SCHEMATIC DIAGRAM-3/6 (MAIN 3/3) 18
WIRING-3/10 (MAIN 3/3) 19
SCHEMATIC DIAGRAM-4/6 (FRONT) 20
WIRING-4/10 (FRONT) 21
SCHEMATIC DIAGRAM-5/6 (TUNER, U) 22
WIRING-5/10 (TUNER, U) 23
SCHEMATIC DIAGRAM-6/6 (TUNER, K, EZ) 24
WIRING-6/10 (TUNER, K, EZ) 25
WIRING-7/10 (POWER, OUT) 26
WIRING-8/10 (CD) 27
WIRING-9/10 (TAPE, LED) 28
WIRING-10/10 (TAPE) 29
ELECTRICAL ADJUSTMENT 30-33
IC DESCRIPTION 34-39
IC BLOCK DIAGRAM 40-42
MECHANICAL EXPLODED VIEW-1/1 43
MECHANICAL PARTS LIST-1/1 44
TAPE MECHANISM EXPLODED VIEW-1/2 (AZM1A1NF) 46
TAPE MECHANISM PARTS LIST-1/2 (AZM1A1NF) 47
TAPE MECHANISM EXPLODED VIEW-2/2 (6ZM4R4N) 48
TAPE MECHANICSM PARTS LIST-2/2 (6ZM4R4N) 49
ACCESSORIES/PACKAGE LIST-1/1 50

SPECIFICATIONS

U MODEL

Tuner section
Frequency range, antenna – FM: 87.5 - 108.0 MHz, Rod antenna, FM antenna terminal: 75 ohms (unbalanced). AM: 530/531 - 1,710/1,602 kHz (10/9 kHz step), AM loop antenna.

Deck section
Track format – 4 tracks, 2 channels / Frequency range – Normal tape: 50 - 12,500 Hz (EIAJ) / Recording system – AC bias / Erasing system – AC erase / Heads – Recording/playback head (1), Erasure head (1)

CD player section
Disc – Compact disc / Scanning method – Non-contact optical scanner (semiconductor laser)

General
Speaker – 100 mm cone type (2) / Output – Headphones jack (stereo mini-jack) / Power output – 10 W + 10 W (EIAJ, 4 ohms, T.H.D. 10%) / Power requirements – AC 120 V, 60 Hz / Power consumption – 40 W / Power consumption in standby mode – With ECO mode on: 1.2 W, With ECO mode off: 9.4 W / Dimensions (W × H × D) – 482 × 168 × 231 mm (19 × $6\frac{5}{8} \times 9\frac{1}{8}$ in.) / Weight – 6.7 kg (14 lbs. 12 oz.) / Accessories – Remote control (1), AC cord (1), AM loop antenna (1)

- Design and specifications are subject to change without notice.

EZ MODEL

Tuner section
Frequency range, antenna –
FM: 87.5 - 108.0 MHz, FM antenna terminal: 75 ohms (unbalanced). MW: 531/530 - 1,602/1,710 kHz (9/10 kHz step), Loop antenna. LW: 144 - 290 kHz, Loop antenna.

Deck section
Track format – 4 tracks, 2 channels / Frequency range – Normal tape: 50 - 12,500 Hz (EIAJ) / Recording system – AC bias / Erasing system – AC erase / Heads – Recording/playback head (1), Erasure head (1)

CD player section
Disc – Compact disc / Scanning method – Non-contact optical scanner (semiconductor laser)

General
Speaker – 100 mm cone type (2) / Output – Headphones jack (stereo mini-jack) / Power output – 14 W + 14 W (DIN MUSIC POWER), 10 W + 10 W (EIAJ, 4 ohms, T.H.D. 10%), 8.5 W + 8.5 W (DIN 1% Rated Power) / Power requirements – AC 230 V, 50 Hz / Power consumption – 40 W / Power consumption in standby mode – With ECO mode on: 1.6 W, With ECO mode off: 6.3 W / Dimensions (W × H × D) – 482 × 168 × 231 mm / Weight – 6.7 kg / Accessories – Remote control (1), AC cord (1), MW/LW loop antenna (1), FM feeder antenna (1)

- Design and specifications are subject to change without notice.

K MODEL

Tuner section
Frequency range, antenna –
FM: 87.5 - 108.0 MHz, FM antenna terminal: 75 ohms (unbalanced). MW: 531/530 - 1,602/1,710 kHz (9/10 kHz step), Loop antenna. LW: 144 - 290 kHz, Loop antenna.

Deck section
Track format – 4 tracks, 2 channels / Frequency range – Normal tape: 50 - 12,500 Hz (EIAJ) / Recording system – AC bias / Erasing system – AC erase / Heads – Recording/playback head (1), Erasure head (1)

CD player section
Disc – Compact disc / Scanning method – Non-contact optical scanner (semiconductor laser)

General
Speaker – 100 mm cone type (2) / Output – Headphones jack (stereo mini-jack) / Power output – 10 W + 10 W (EIAJ, 4 ohms, T.H.D. 10%), 8.5 W + 8.5 W (DIN 1% Rated Power) / Power requirements – AC 230 V, 50 Hz / Power consumption – 40 W / Power consumption in standby mode – With ECO mode on: 1.6 W, With ECO mode off: 6.3 W / Dimensions (W × H × D) – 482 × 168 × 231 mm / Weight – 6.7 kg / Accessories – Remote control (1), AC cord (1), MW/LW loop antenna (1), FM feeder antenna (1)

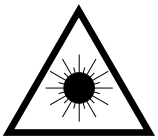
- Design and specifications are subject to change without notice.

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynling laserståling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

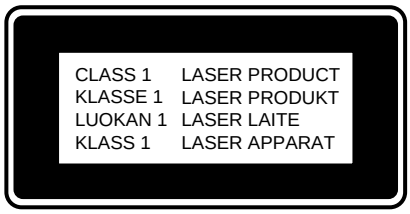
ATTENTION

L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserståling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

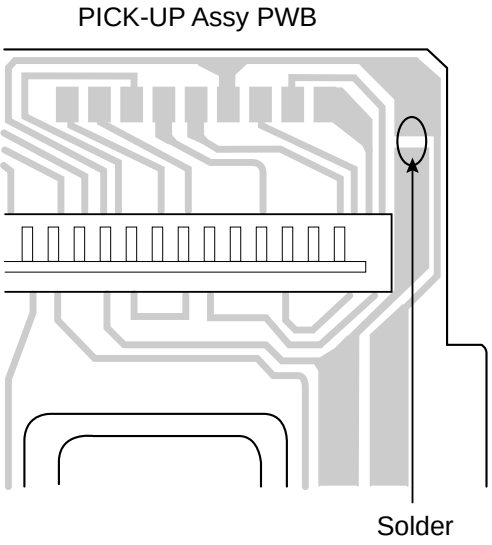
This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



Precaution to replace Optical block (KSS-213C)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in the right figure.



ELECTRICAL MAIN PARTS LIST-1/5

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-020-454-010		IC,DN6851
	87-A21-416-040		C-IC,M61500FP
	87-A21-881-010		IC,LA4636
	87-A21-607-010		IC,NJM14558LD
	87-070-289-040		IC,BU 2092F
	87-001-982-010		IC,TA7291S
	87-A20-446-010		C-IC,LA9241ML
	87-A21-319-010		C-IC,LC78622NE
	87-A20-856-010		IC,BA6898S
	8B-CH1-601-010		C-IC,LC867132V
	87-A21-831-010		IC,SPS-422-1-F1
	87-A21-928-010		IC,LC72131D-N
	87-A20-913-010		IC,LA1837NL
TRANSISTOR			
	89-213-702-010		TR,2SB1370E
	87-A30-515-080		TR,2SA1979O/Y
	87-A30-076-080		C-TR,2SC3052F
	87-026-610-080		TR,KTC3198GR
	87-A30-075-080		C-TR,2SA1235F
	87-A30-427-040		C-TR,DTC114EKA
	87-A30-047-080		TR,CSD655E
	87-A30-087-080		C-FET,2SK2158
	89-318-155-080		TR,2SC1815 (0.4W)
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-090-080		FET,2SK2541
	89-320-011-080		TR,2SC2001 (15W)
	87-A30-435-040		C-TR,DTC144EK T146
	87-A30-084-080		TR,CSB1058B
	87-A30-159-080		C-TR,KTA1298Y
	87-026-463-080		TR,2SA933S (0.3W)
	87-A30-287-040		C-TR,DTC114TKA
	89-333-266-080		C-TR,2SC3326B
	87-A30-071-080		C-TR,RT1N 144C
	87-A30-234-080		TR,CSC4115BC
	87-A30-072-080		C-TR,RT1P 144C
	89-327-143-080		TR,2SC2714 (0.1W)
	87-026-291-080		TR,DTC124XS
	87-026-290-080		TR,DTA124X
	89-327-125-080		CHIP TR,2SC2712GR
	87-026-609-080		TR,KTA1266GR
	89-505-434-540		C-FET,2SK543(4/5)<EXCEPT CSD-NS1UMF>
	87-A30-086-070		C-TR,CSD1306E<EXCEPT CSD-NS1UMF>
	87-A30-074-080		C-TR,RT1P 141C<EXCEPT CSD-NS1UMF>
DIODE			
	87-070-345-080		DIODE,IN4148
	87-A40-371-010		DIODE,D3SBA60-4101
	87-A40-345-080		ZENER,MTZJ10C
	87-017-978-080		DIODE,1N4003
	87-A40-234-080		ZENER,MTZJ5.6A
	87-A40-650-080		ZENER,MTZJ6.8A
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-020-465-080		DIODE,1SS133 (110MA)
	87-017-149-080		ZENER,HZS6A2L
	87-A40-337-080		ZENER,MTZJ 6.8B
	87-A40-313-080		C-DIODE,MC 2840
MAIN C.B			
C101	87-A12-803-090		CAP,E 4700-25 105 VB KRG
C102	87-012-270-080		CAP, U 470P-50
C103	87-010-235-080		CAP,E 470-16 SME
C104	87-010-112-080		CAP, ELECT 100-16V<CSD-NS1UMF>
C121	87-010-405-080		CAP, ELECT 10-50V
C122	87-010-387-080		CAP,E 470-25 SME
C145	87-010-112-080		CAP, ELECT 100-16V
C146	87-010-248-080		CAP, ELECT 220-10V
C182	87-010-403-080		CAP, ELECT 3.3-50V
C201	87-010-400-080		CAP, ELECT 0.47-50V
C202	87-010-400-080		CAP, ELECT 0.47-50V
C203	87-010-401-080		CAP, ELECT 1-50V
C204	87-010-401-080		CAP, ELECT 1-50V
C205	87-010-401-080		CAP, ELECT 1-50V
C206	87-010-401-080		CAP, ELECT 1-50V
C211	87-012-274-080		CHIP CAP,U 1000P-50B
C212	87-012-274-080		CHIP CAP,U 1000P-50B
C217	87-012-286-080		CAP, U 0.01-25
C218	87-012-286-080		CAP, U 0.01-25
C221	87-010-546-080		CAP, ELECT 0.33-50V
C222	87-010-546-080		CAP, ELECT 0.33-50V
C223	87-010-831-080		C-CAP,U,0.1-16F
C224	87-010-831-080		C-CAP,U,0.1-16F
C227	87-010-545-080		CAP, ELECT 0.22-50V
C228	87-010-545-080		CAP, ELECT 0.22-50V
C229	87-012-227-080		C-CAP,U 1800P-50
C230	87-012-227-080		C-CAP,U 1800P-50
C232	87-A11-132-080		CAP,TC U 0,01-50 KB
C233	87-A12-310-080		C-CAP U 0.01-50KB
C234	87-A12-310-080		C-CAP U 0.01-50KB
C235	87-010-408-080		CAP, ELECT 47-50V
C236	87-010-248-080		CAP, ELECT 220-10V
C237	87-010-831-080		C-CAP,U,0.1-16F
C238	87-010-831-080		C-CAP,U,0.1-16F
C239	87-010-248-080		CAP, ELECT 220-10V
C240	87-010-260-080		CAP, ELECT 47-25V
C241	87-010-401-080		CAP, ELECT 1-50V
C242	87-010-401-080		CAP, ELECT 1-50V
C247	87-010-263-080		CAP, ELECT 100-10V
C248	87-010-831-080		C-CAP,U,0.1-16F
C249	87-010-404-080		CAP, ELECT 4.7-50V
C261	87-010-545-080		CAP, ELECT 0.22-50V
C262	87-010-545-080		CAP, ELECT 0.22-50V
C263	87-012-274-080		CHIP CAP,U 1000P-50B
C264	87-012-274-080		CHIP CAP,U 1000P-50B
C265	87-A11-012-080		CAP,M 0.15-50 J DE
C266	87-A11-012-080		CAP,M 0.15-50 J DE
C267	87-A11-012-080		CAP,M 0.15-50 J DE
C268	87-A11-012-080		CAP,M 0.15-50 J DE
C270	87-010-378-080		CAP, ELECT 10-16V
C273	87-012-286-080		CAP, U 0.01-25
C274	87-010-260-080		CAP, ELECT 47-25V
C275	87-010-406-080		CAP, ELECT 22-50
C276	87-010-406-080		CAP, ELECT 22-50
C277	87-010-406-080		CAP, ELECT 22-50
C278	87-010-406-080		CAP, ELECT 22-50
C280	87-012-188-080		C-CAP,U 47P-50 CH
C281	87-012-188-080		C-CAP,U 47P-50 CH
C282	87-012-188-080		C-CAP,U 47P-50 CH
C283	87-012-188-080		C-CAP,U 47P-50 CH
C284	87-012-188-080		C-CAP,U 47P-50 CH
C285	87-012-273-080		C-CAP,U 820P-50 B
C286	87-012-273-080		C-CAP,U 820P-50 B
C295	87-010-497-010		CAP,E 4.7-35 GAS
C296	87-010-497-010		CAP,E 4.7-35 GAS
C301	87-012-274-080		CHIP CAP,U 1000P-50B
C302	87-012-274-080		CHIP CAP,U 1000P-50B
C305	87-010-263-080		CAP, ELECT 100-10V
C306	87-010-263-080		CAP, ELECT 100-10V
C307	87-012-285-080		C-CAP,U 8200P-50 B
C308	87-012-285-080		C-CAP,U 8200P-50 B
C309	87-012-195-080		C-CAP,U 100P-50CH
C310	87-012-195-080		C-CAP,U 100P-50CH
C311	87-010-546-080		CAP, ELECT 0.33-50V
C312	87-010-546-080		CAP, ELECT 0.33-50V

ELECTRICAL MAIN PARTS LIST-2/5

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C313	87-012-285-080		C-CAP,U 8200P-50 B
C314	87-012-285-080		C-CAP,U 8200P-50 B
C321	87-010-787-080		CAP, U 0.022-25
C323	87-012-272-080		C-CAP,U 680P-50 B
C324	87-012-272-080		C-CAP,U 680P-50 B
C331	87-012-269-080		C-CAP,U 390P-50 B
C332	87-012-269-080		C-CAP,U 390P-50 B
C333	87-018-128-080		CAP, CERA-SOL SS 560P
C334	87-018-131-080		CAP, CER 1000P-50V
C336	87-012-286-080		CAP, U 0.01-25
C337	87-012-279-080		C-CAP,U 2700P-50 B
C338	87-012-279-080		C-CAP,U 2700P-50 B
C339	87-012-279-080		C-CAP,U 2700P-50 B
C340	87-010-382-080		CAP, ELECT 22-25V
C341	87-010-787-080		CAP, U 0.022-25
C342	87-010-405-010		CAP,E 10-50 M SME
C345	87-012-274-080		CHIP CAP,U 1000P-50B
C346	87-012-274-080		CHIP CAP,U 1000P-50B
C347	87-010-374-080		CAP, ELECT 47-10V
C348	87-012-274-080		CHIP CAP,U 1000P-50B
C355	87-012-278-080		C-CAP,U 2200P-50 B
C356	87-012-278-080		C-CAP,U 2200P-50 B
C357	87-012-284-080		CAP, U 6800P-50
C358	87-012-284-080		CAP, U 6800P-50
C363	87-010-405-080		CAP, ELECT 10-50V
C364	87-010-405-080		CAP, ELECT 10-50V
C367	87-012-284-080		CAP, U 6800P-50
C368	87-012-284-080		CAP, U 6800P-50
C369	87-012-193-080		C-CAP,U 82P-50 CH
C370	87-012-193-080		C-CAP,U 82P-50 CH
C373	87-010-401-080		CAP, ELECT 1-50V
C374	87-010-401-080		CAP, ELECT 1-50V
C381	87-010-263-080		CAP, ELECT 100-10V
C382	87-010-401-080		CAP, ELECT 1-50V
C383	87-010-248-080		CAP, ELECT 220-10V
C384	87-010-374-080		CAP, ELECT 47-10V
C391	87-018-119-080		CAP,TCU 100P-50<CSD-NS1UMF>
C401	87-010-406-080		CAP, ELECT 22-50
C402	87-012-286-080		CAP, U 0.01-25
C403	87-012-268-080		C-CAP,U 330P-50 B
C408	87-016-114-080		C-CAP,U0.01-25B
C409	87-010-112-080		CAP, ELECT 100-16V
C411	87-010-831-080		C-CAP,U,0.1-16F
C412	87-012-286-080		CAP, U 0.01-25
C413	87-010-831-080		C-CAP,U,0.1-16F
C414	87-010-831-080		C-CAP,U,0.1-16F
C415	87-012-286-080		CAP, U 0.01-25
C430	87-016-114-080		C-CAP,U0.01-25B
C431	87-010-112-080		CAP, ELECT 100-16V
C501	87-010-403-080		CAP, ELECT 3.3-50V
C502	87-012-286-080		CAP, U 0.01-25
C503	87-010-263-080		CAP, ELECT 100-10V
C504	87-010-248-080		CAP, ELECT 220-10V
C505	87-012-286-080		CAP, U 0.01-25
C506	87-010-374-080		CAP, ELECT 47-10V
C507	87-018-131-080		CAP, CER 1000P-50V
C508	87-010-787-080		CAP, U 0.022-25
C509	87-010-248-080		CAP, ELECT 220-10V
C510	87-010-263-080		CAP, ELECT 100-10V
C512	87-010-401-080		CAP, ELECT 1-50V
C513	87-A11-070-080		C-CAP,U 0.033-16 K B
C514	87-010-405-080		CAP, ELECT 10-50V
C516	87-010-545-080		CAP, ELECT 0.22-50V
C517	87-A12-173-080		C-CAP,U 330P-50 CH
C518	87-010-785-080		C-CAP,U0.015-25BK
C520	87-A11-070-080		C-CAP,U 0.033-16 K B
C522	87-012-279-080		C-CAP,U 2700P-50 B
C523	87-A11-317-080		C-CAP,U 0.068U-16 K B
C524	87-A10-298-080		CAP,M 0.018-50 J
C525	87-018-129-080		CAP, CER 680P-50V
C528	87-010-784-080		C-CAP,U 0.012-25 B
C529	87-012-282-080		CAP, U 4700P-50
C530	87-012-199-080		CAP 220P
C531	87-010-545-080		CAP, ELECT 0.22-50V
C532	87-010-374-080		CAP, ELECT 47-10V
C533	87-010-401-080		CAP, ELECT 1-50V
C534	87-012-280-080		CAP, U 3300P-50
C535	87-012-286-080		CAP, U 0.01-25
C536	87-010-374-080		CAP, ELECT 47-10V
C537	87-010-404-080		CAP, ELECT 4.7-50V
C538	87-A10-260-080		C-CAP,U 0.1-16 K B
C539	87-012-274-080		CHIP CAP,U 1000P-50B
C540	87-018-139-080		CAP,TC-U 1P-50 CH
C541	87-012-286-080		CAP, U 0.01-25
C542	87-018-150-080		CAP,TC-U 18P-50 CH
C545	87-010-831-080		C-CAP,U,0.1-16F
C546	87-010-831-080		C-CAP,U,0.1-16F
C547	87-010-831-080		C-CAP,U,0.1-16F
C548	87-012-182-080		C-CAP,U 27P-50 CH
C551	87-012-199-080		CAP 220P
C555	87-010-247-080		CAP, ELECT 100-50V
C557	87-012-176-080		CAP 15P
C558	87-012-176-080		CAP 15P
C559	87-010-263-080		CAP, ELECT 100-10V
C560	87-015-819-080		CAPACITOR,0.01
C561	87-012-286-080		CAP, U 0.01-25
C562	87-010-248-080		CAP, ELECT 220-10V
C563	87-018-197-080		CAP, CER 1800P-16V
C565	87-010-404-080		CAP, ELECT 4.7-50V
C566	87-010-831-080		C-CAP,U,0.1-16F
C567	87-010-263-080		CAP, ELECT 100-10V
C569	87-012-197-080		C-CAP,U 150P-50 CH
C571	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C572	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C573	87-010-831-080		C-CAP,U,0.1-16F
C574	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C575	87-A11-132-080		CAP,TC U 0.01-50 K B
C576	87-010-236-080		CAP,E 1000-10 SME
C577	87-012-286-080		CAP, U 0.01-25
C578	87-010-263-080		CAP, ELECT 100-10V
C579	87-012-286-080		CAP, U 0.01-25
C580	87-010-221-080		CAP, ELECT 470-10V
C581	87-010-405-080		CAP, ELECT 10-50V
C582	87-010-405-080		CAP, ELECT 10-50V
C589	87-010-831-080		C-CAP,U,0.1-16F
C590	87-010-831-080		C-CAP,U,0.1-16F
C594	87-018-134-080		CAPACITOR,TC-U 0.01-16
C801	87-010-831-080		C-CAP,U,0.1-16F
C802	87-012-195-080		C-CAP,U 100P-50CH
C803	87-012-195-080		C-CAP,U 100P-50CH
C804	87-012-195-080		C-CAP,U 100P-50CH
C805	87-012-195-080		C-CAP,U 100P-50CH
C806	87-012-195-080		C-CAP,U 100P-50CH
C810	87-A10-260-080		C-CAP,U 0.1-16 K B
C815	87-010-382-080		CAP, ELECT 22-25V
C816	87-010-831-080		C-CAP,U,0.1-16F
C817	87-010-380-080		CAP, ELECT 47-16V
C1000	87-010-405-010		C CAP E 10-50 M SME
C1001	87-A11-132-080		CAP,TC U 0,01-50 KB
CN1	87-A60-621-010		CONN,4P V 2MM JMT
CN2	87-A60-937-010		CONN,2P V VH
CN252	87-099-751-010		CONN,16P V 9604SC
CN253	87-A60-768-010		CONN,12P B TMC-D(X)
CN254	87-A60-768-010		CONN,12P B TMC-D(X)
CN256	87-A60-130-010		CONN,5P V FE
CN265	87-A60-623-010		CONN,6P V 2MM JMT
CN269	87-A60-776-010		CONN,12P B TMC-D(P)
CN270	87-A60-776-010		CONN,12P B TMC-D(P)
CN271	87-049-469-010		CONN,4P V
CN272	87-A60-624-010		CONN,7P V 2MM JMT

ELECTRICAL MAIN PARTS LIST-3/5

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
CN301	87-A60-625-010		CONN,8P V 2MM JMT
CN430	87-A60-619-010		CONN,2P V 2MM JMT
CN431	87-A60-620-010		CONN,3P V 2MM JMT
CN501	87-A60-424-010		CONN,16P V TOC-B
CN503	87-A60-058-010		CONN,10P V 9604S-10C
CNA266	88-805-133-030		CONN ASSY,13P
CNA502	88-805-062-610		CONN ASSY,6P CD-M
FB1	87-003-223-010		FERRITE BEAD BLO2RN2<EXCEPT CSD-NS1UMF>
FB2	87-003-223-010		FERRITE BEAD BLO2RN2<EXCEPT CSD-NS1UMF>
FB3	87-003-223-010		FERRITE BEAD BLO2RN2<EXCEPT CSD-NS1UMF>
FB4	87-003-223-010		FERRITE BEAD BLO2RN2<EXCEPT CSD-NS1UMF>
L264	87-003-383-010		COIL,1UH-S<CSD-NS1EZMF>
L265	87-003-383-010		COIL,1UH-S<CSD-NS1EZMF>
L331	87-007-342-010		COIL,OSC 85K BIAS
L501	87-003-102-080		COIL, 10UH
L505	87-003-097-080		COIL,1UH<CSD-NS1UMF>
⚠PR101	87-A91-969-080		FUSE,4A 125V F 20N<CSD-NS1UMF>
⚠PR101	87-A91-944-080		PROTECTOR,4A 20P 60V<EXCEPT CSD-NS1UMF>
R111	87-A00-261-080		RES,M/F 0.56-1W J<CSD-NS1UMF>
SFR530	87-024-437-080		SFR100K,RH063EC
X501	81-592-641-080		CERALOCK 16.93MHZ

FRONT C.B

C241	87-010-400-080		CAP, ELECT 0.47-50V
C242	87-010-248-080		CAP, ELECT 220-10V
C243	87-010-831-080		C-CAP,U,0.1-16F
C245	87-010-263-080		CAP, ELECT 100-10V
C246	87-010-831-080		C-CAP,U,0.1-16F
C261	87-010-831-080		C-CAP,U,0.1-16F
C263	87-010-829-080		CAP, U 0.047-16
C264	87-010-263-080		CAP, ELECT 100-10V
C265	87-010-831-080		C-CAP,U,0.1-16F
C341	87-012-197-080		C-CAP,U 150P-50 CH
C342	87-012-197-080		C-CAP,U 150P-50 CH
C601	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C602	87-010-831-080		C-CAP,U,0.1-16F
C603	87-016-114-080		C-CAP,U0.01-25B
C606	87-012-176-080		CAP 15P
C608	87-010-787-080		CAP, U 0.022-25
C614	87-012-267-080		C-CAP,U 270P-50 B
C615	87-012-184-080		C-CAP,U 33P-50 CH
C617	87-012-178-080		C-CAP,U 18P-50 CH
C618	87-012-180-080		C-CAP,U 22P-50 CH
C692	87-012-188-080		C-CAP,U 47P-50 CH
CN601	87-099-757-010		CONN,16P 9604S F
CN602	87-A60-077-010		CONN,10P H 9604S-10F
CN604	87-A60-621-010		CONN,4P V 2MM JMT
CNA603	88-805-060-860		CONN ASSY,6P
CNA604	88-805-092-690		CONN ASSY,9P
CNA605	8B-CH1-669-010		CONN ASSY,3P RMC
L601	87-A50-408-010		COIL,OSC 5.76MHZ
LCD601	8B-CH1-602-010		LCD,4213A-30P2N
S301	87-A90-095-080		SW,TACT EVQ11G04M
S302	87-A90-095-080		SW,TACT EVQ11G04M
S303	87-A90-095-080		SW,TACT EVQ11G04M
S304	87-A90-095-080		SW,TACT EVQ11G04M
S305	87-A90-095-080		SW,TACT EVQ11G04M
S306	87-A90-095-080		SW,TACT EVQ11G04M
S307	87-A90-095-080		SW,TACT EVQ11G04M
S308	87-A90-095-080		SW,TACT EVQ11G04M
S309	87-A90-095-080		SW,TACT EVQ11G04M
S310	87-A90-095-080		SW,TACT EVQ11G04M
S321	87-A90-095-080		SW,TACT EVQ11G04M
S322	87-A90-095-080		SW,TACT EVQ11G04M
S323	87-A90-095-080		SW,TACT EVQ11G04M
S324	87-A90-095-080		SW,TACT EVQ11G04M
S325	87-A90-095-080		SW,TACT EVQ11G04M
S326	87-A90-095-080		SW,TACT EVQ11G04M
S327	87-A90-095-080		SW,TACT EVQ11G04M
S328	87-A90-095-080		SW,TACT EVQ11G04M
S329	87-A90-095-080		SW,TACT EVQ11G04M
S341	87-A92-138-010		SW,RTRY 1-2-24 EVEGA1F2524B
X602	87-030-273-010		VIB,XTAL 32.768K5PPM

HP C.B

C291	87-012-280-080		CAP, U 3300P-50
C292	87-012-280-080		CAP, U 3300P-50
CN273	87-A60-624-010		CONN,7P V 2MM JMT
J201	87-A60-420-010		JACK,3.5 ST (MSC)

LID MOTOR C.B

C432	87-010-265-080		CAP, ELECT 33-16V
C433	87-010-265-080		CAP, ELECT 33-16V
CNA430	88-805-021-750		CONN ASSY,2P V MOT
M101	87-045-305-010		MOTOR,RF-500TB DC-5V(2MA)

TUNER C.B

C701	87-010-381-080		CAP, ELECT 330-16V
C702	87-010-404-080		CAP, ELECT 4.7-50V
C703	87-012-286-080		CAP, U 0.01-25
C704	87-012-286-080		CAP, U 0.01-25
C705	87-A10-592-080		C-CAP,S 0.015-50 J B<CSD-NS1UMF>
C706	87-A10-592-080		C-CAP,S 0.015-50 J B<CSD-NS1UMF>
C709	87-012-195-080		C-CAP,U 100P-50CH
C711	87-010-260-080		CAP, ELECT 47-25V
C712	87-010-831-080		C-CAP,U,0.1-16F
C713	87-012-286-080		CAP, U 0.01-25<EXCEPT CSD-NS1UMF>
C714	87-012-286-080		CAP, U 0.01-25
C715	87-012-195-080		C-CAP,U 100P-50CH<EXCEPT CSD-NS1UMF>
C717	87-012-286-080		CAP, U 0.01-25
C719	87-012-286-080		CAP, U 0.01-25
C720	87-012-195-080		C-CAP,U 100P-50CH
C721	87-012-176-080		CAP 15P
C722	87-012-176-080		CAP 15P
C723	87-012-274-080		CHIP CAP,U 1000P-50B
C725	87-018-131-080		CAP, CER 1000P-50V<EXCEPT CSD-NS1UMF>
C725	87-012-274-080		CHIP CAP,U 1000P-50B<CSD-NS1UMF>
C727	87-010-196-080		CHIP CAPACITOR,0.1-25
C728	87-010-248-080		CAP, ELECT 220-10V
C729	87-012-274-080		CHIP CAP,U 1000P-50B
C731	87-012-286-080		CAP, U 0.01-25
C733	87-010-987-080		C-CAP,S 1500P-50 CH<CSD-NS1UMF>
C733	87-012-280-080		CAP, U 3300P-50<EXCEPT CSD-NS1UMF>
C734	87-010-987-080		C-CAP,S 1500P-50 CH<CSD-NS1UMF>
C734	87-012-280-080		CAP, U 3300P-50<EXCEPT CSD-NS1UMF>
C735	87-010-987-080		C-CAP,S 1500P-50 CH<CSD-NS1UMF>
C736	87-010-987-080		C-CAP,S 1500P-50 CH<CSD-NS1UMF>
C737	87-A10-592-080		C-CAP,S 0.015-50 J B<CSD-NS1UMF>
C738	87-A10-592-080		C-CAP,S 0.015-50 J B<CSD-NS1UMF>
C751	87-012-365-080		C-CAP,S 0.027-25VBK<CSD-NS1UMF>
C752	87-012-365-080		C-CAP,S 0.027-25VBK<CSD-NS1UMF>
C752	87-012-282-080		CAP, U 4700P-50<EXCEPT CSD-NS1UMF>
C753	87-012-195-080		C-CAP,U 100P-50CH<EXCEPT CSD-NS1UMF>
C755	87-012-286-080		CAP, U 0.01-25<EXCEPT CSD-NS1UMF>
C756	87-012-286-080		CAP, U 0.01-25
C757	87-012-188-080		C-CAP,U 47P-50 CH
C758	87-012-167-080		C-CAP,U 5P-50 CH
C761	87-010-196-080		CHIP CAPACITOR,0.1-25 <EXCEPT CSD-NS1UMF>
C762	87-012-286-080		CAP, U 0.01-25<EXCEPT CSD-NS1UMF>
C763	87-010-829-080		CAP, U 0.047-16
C764	87-012-269-080		C-CAP,U 390P-50 B<EXCEPT CSD-NS1UMF>
C764	87-012-337-080		C-CAP,U 56P-50 CH<CSD-NS1UMF>

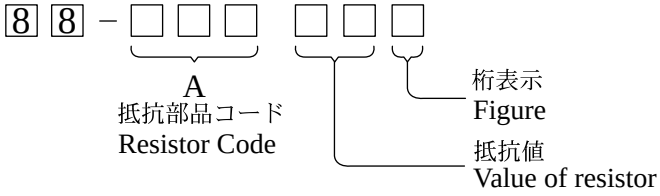
ELECTRICAL MAIN PARTS LIST-4/5

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
C765	87-012-286-080		CAP, U 0.01-25
C766	87-010-197-080		CAP, CHIP 0.01 DM<EXCEPT CSD-NS1UMF>
C768	87-012-286-080		CAP, U 0.01-25
C769	87-010-260-080		CAP, ELECT 47-25V
C770	87-010-829-080		CAP, U 0.047-16
C771	87-010-383-080		CAP, ELECT 33-25V
C772	87-010-829-080		CAP, U 0.047-16
C773	87-010-196-080		CHIP CAPACITOR,0.1-25
C774	87-010-263-080		CAP, ELECT 100-10V
C775	87-010-404-080		CAP, ELECT 4.7-50V
C776	87-012-286-080		CAP, U 0.01-25
C777	87-010-400-080		CAP, ELECT 0.47-50V<CSD-NS1UMF>
C777	87-010-493-080		CAP,E 0.47-50 GAS<EXCEPT CSD-NS1UMF>
C778	87-010-401-080		CAP, ELECT 1-50V
C779	87-010-401-080		CAP, ELECT 1-50V
C780	87-010-196-080		CHIP CAPACITOR,0.1-25
C781	87-010-405-080		CAP, ELECT 10-50V
C782	87-010-405-080		CAP, ELECT 10-50V
C783	87-012-286-080		CAP, U 0.01-25
C784	87-012-286-080		CAP, U 0.01-25
C785	87-010-401-080		CAP, ELECT 1-50V<CSD-NS1UMF>
C785	87-010-402-080		CAP, ELECT 2.2-50V<EXCEPT CSD-NS1UMF>
C786	87-010-401-080		CAP, ELECT 1-50V<CSD-NS1UMF>
C786	87-010-402-080		CAP, ELECT 2.2-50V<EXCEPT CSD-NS1UMF>
C787	87-012-275-080		C-CAP,U 1200P-50 B<EXCEPT CSD-NS1UMF>
C788	87-012-275-080		C-CAP,U 1200P-50 B<EXCEPT CSD-NS1UMF>
C789	87-012-275-080		C-CAP,U 1200P-50 B
C790	87-012-275-080		C-CAP,U 1200P-50 B
C791	87-010-405-080		CAP, ELECT 10-50V
C793	87-012-273-080		C-CAP,U 820P-50 B
C794	87-010-406-080		CAP, ELECT 22-50
C795	87-010-596-080		CAP, S 0.047-16
C796	87-010-403-080		CAP, ELECT 3.3-50V
C797	87-012-276-080		CAP, CHIP SS 1500 PBK <EXCEPT CSD-NS1UMF>
C798	87-012-276-080		CAP, CHIP SS 1500 PBK <EXCEPT CSD-NS1UMF>
C799	87-010-829-080		CAP, U 0.047-16
C812	87-012-286-080		CAP, U 0.01-25
C814	87-012-286-080		CAP, U 0.01-25<EXCEPT CSD-NS1UMF>
C820	87-010-260-080		CAP, ELECT 47-25V
C821	87-012-286-080		CAP, U 0.01-25
C822	87-012-286-080		CAP, U 0.01-25
C823	87-012-286-080		CAP, U 0.01-25
C828	87-010-196-080		CHIP CAPACITOR,0.1-25
C829	87-010-196-080		CHIP CAPACITOR,0.1-25
C940	87-012-286-080		CAP, U 0.01-25<EXCEPT CSD-NS1UMF>
C942	87-012-168-080		C-CAP,U 6P-50 CH<EXCEPT CSD-NS1UMF>
C947	87-012-286-080		CAP, U 0.01-25<EXCEPT CSD-NS1UMF>
C949	87-A10-039-080		C-CAP,U 470P-50 J CH<EXCEPT CSD-NS1UMF>
C952	87-012-286-080		CAP, U 0.01-25<EXCEPT CSD-NS1UMF>
C958	87-010-197-080		CAP, CHIP 0.01 DM<EXCEPT CSD-NS1UMF>
C959	87-010-831-080		C-CAP,U,0.1-16F<EXCEPT CSD-NS1UMF>
C959	87-010-196-080		CHIP CAPACITOR,0.1-25<CSD-NS1UMF>
C960	87-010-196-080		CHIP CAPACITOR,0.1-25
C961	87-012-170-080		C-CAP,U 8P-50 CH<CSD-NS1UMF>
C962	87-010-401-080		CAP, ELECT 1-50V<EXCEPT CSD-NS1UMF>
C963	87-010-196-080		CHIP CAPACITOR,0.1-25<CSD-NS1UMF>
CF801	87-008-423-010		CERAMIC FILTER, SFE10.7 <EXCEPT CSD-NS1UMF>
CF801	87-008-261-010		FILTER, SFE10.7MA5-A<CSD-NS1UMF>
CF802	82-785-747-010		CF MS2 GHY R<EXCEPT CSD-NS1UMF>
CF802	87-008-261-010		FILTER, SFE10.7MA5-A<CSD-NS1UMF>
CN701	87-A60-630-010		CONN,13P V 2MM JMT
FFE801	A8-6ZA-19M-030		6ZA-1 YFEMENM
J801	87-A60-702-010		TERMINAL,ANT 4P CJ-9036<CSD-NS1UMF>
J801	87-033-241-010		TERMINAL,ANT AJ-2039<EXCEPT CSD-NS1UMF>
L771	87-A50-266-010		COIL,FM DET-2N(TOK)
L772	87-A91-110-010		FLTR,PCFJZH-450 (TOK)
L781	87-005-847-080		COIL,2.2UH(CECS)<EXCEPT CSD-NS1UMF>
L791	87-A50-027-010		COIL,1 POLE MPX(TOK)<EXCEPT CSD-NS1UMF>
L792	87-A50-027-010		COIL,1 POLE MPX(TOK)<EXCEPT CSD-NS1UMF>
L832	87-005-847-080		COIL,2.2UH(CECS)<EXCEPT CSD-NS1UMF>
L941	87-A50-020-010		COIL,ANT LW(COI)<EXCEPT CSD-NS1UMF>
L942	87-A50-019-010		COIL,OSC LW(COI)<EXCEPT CSD-NS1UMF>
L981	8Z-ZA1-665-010		COIL,AM PACK 2(TOK)<EXCEPT CSD-NS1UMF>
L981	8Z-ZA1-667-010		COIL,AM PACK 4F(TOK)<CSD-NS1UMF>
TC942	87-A91-658-010		TRIMMER,30P 4.0X4.5 ECRL <EXCEPT CSD-NS1UMF>
X721	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309
PT C.B			
CNA1	8B-CH1-631-010		CONN ASSY,4P V ECO
CNA2	8B-CH1-630-010		CONN ASSY,2P V VM
⚠J1	87-A61-455-010		JACK,AC E PSE27N<EXCEPT CSD-NS1UMF>
⚠J1	87-A60-177-010		JACK,AC U W/SW<CSD-NS1UMF>
⚠PT1	8B-CH1-637-010		PT,E<EXCEPT CSD-NS1UMF>
⚠PT1	8B-CH1-639-010		PT,U<CSD-NS1UMF>
⚠PT2	8Z-NF8-659-010		PT,SUB ZNF-8(E)TAM<EXCEPT CSD-NS1UMF>
⚠PT2	8Z-NF8-661-010		PT,SUB ZNF-8(U)<CSD-NS1UMF>
⚠S1	87-A91-390-010		RELAY,AC12V G5PA-1-8
SW C.B			
CNA431	88-805-031-730		CONN ASSY,3P V SW
S101	87-A91-795-010		SW,MICRO SPPB6A0400
S102	87-036-110-010		PUSH SWITCH
RMC C.B			
C611	87-012-274-080		CHIP CAP,U 1000P-50B
C612	87-010-378-080		CAP, ELECT 10-16V
CN605	87-A60-620-010		CONN,3P V 2MM JMT
LED C.B			
CNA351	88-805-040-440		CONN ASSY,4P LED
D361	87-A92-173-010		LED,NSPW500BS
D362	87-A92-173-010		LED,NSPW500BS
D363	87-A92-173-010		LED,NSPW500BS
MOTOR C.B			
M2	S0-M10-A09-700		MOTOR SLED ASSY
PIN3	S2-369-750-000		PLUG,6P
SW1	S4-S13-A01-600		SW,LEAF
MOTOR 1 C.B			
CN1	86-NFZ-675-010		CONN,5P H 6216-11H
M1	87-045-305-010		MOTOR, RF-500TB DC-5V(2MA)
S2	87-A91-662-010		SW,PUSH 1-1-1 MPU11244MLBO
SWITCH C.B			
S1	87-A90-948-010		SW,LVR 2-1-2 MPU11263MLBO
DECK C.B			
CN2	87-009-352-010		CONN,9P PH H
M1	87-A90-343-010		MOT,SHU2R 70
SFR1	87-024-581-010		SFR,3.3K DIA6V K0A
SOL2	82-ZM3-628-010		SOL ASSY,23 SO
SW2	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW4	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW5	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW6	87-A90-248-010		SW,MICRO ESE11SH2CXQ

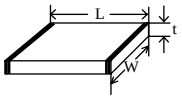
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

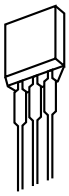
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

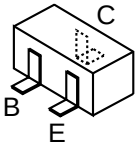
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm)				抵抗コード　：A Resistor Code：A
				外形／Form	L	W	t	
1/16W	1005	±5%	CJ		1.0	0.5	0.35	104
1/16W	1608	±5%	CJ		1.6	0.8	0.45	108
1/10W	2125	±5%	CJ		2	1.25	0.45	118
1/8W	3216	±5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION-1/1

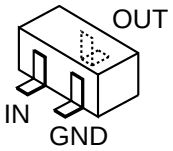


2SA933
CSD655E

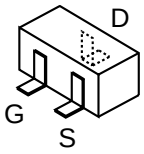
2SC2001
KTC3198
2SA19790
CSC4115BC
KTA1266GR
2SC1815GR
CSB1058B



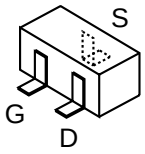
2SC2714
DTC114TKA
2SC3052
RT1N141C
2SC3326
RT1P144C
2SC2712
2SA1235
RT1N144C
KTA1298Y
CSD1306E
RT1P141C



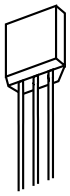
DTC114EKA
DTC144EKA



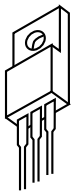
2SK2158



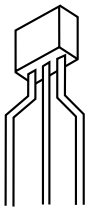
2SK543



2SK2541

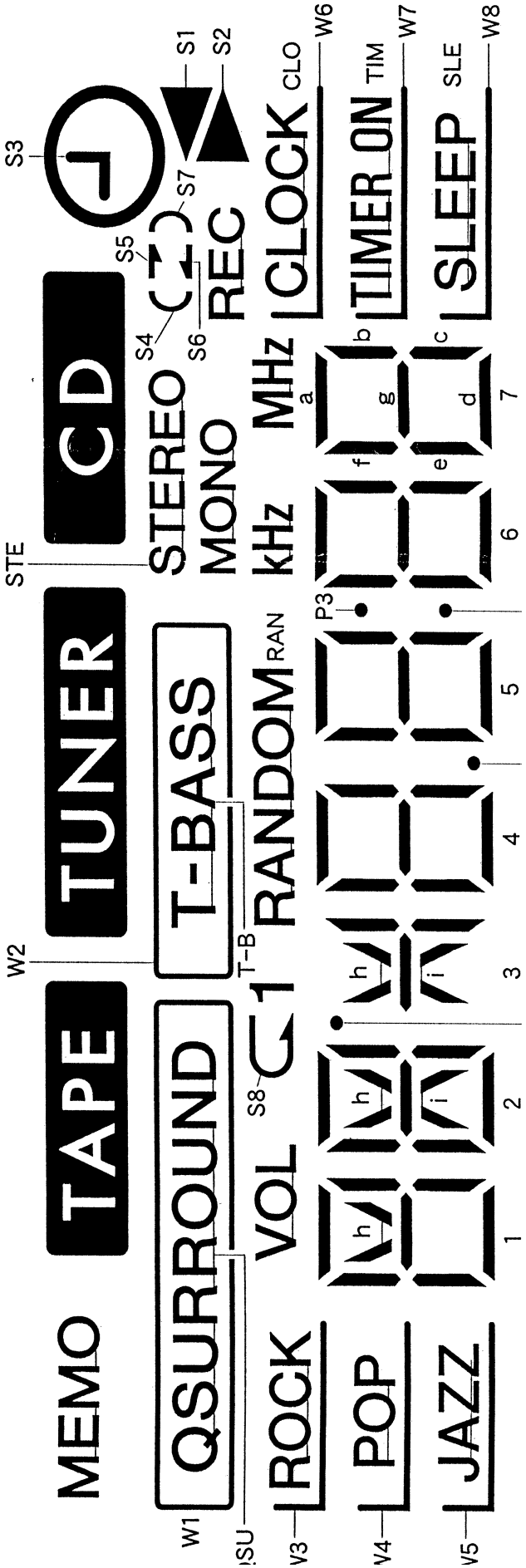


2SB1370E



DTC124XS
DTA124XS

GRID ASSIGNMENT

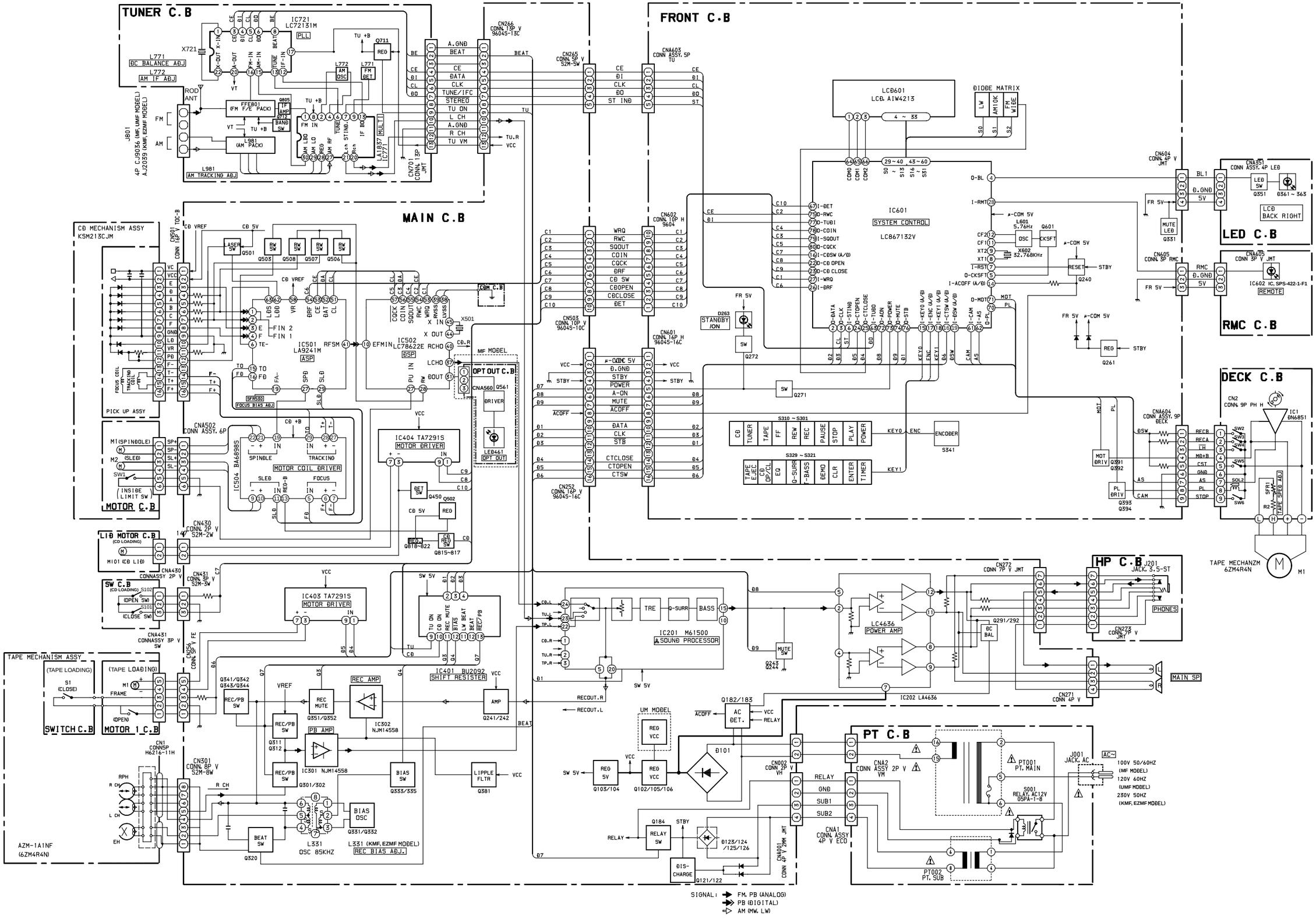


ANODE CONNECTION

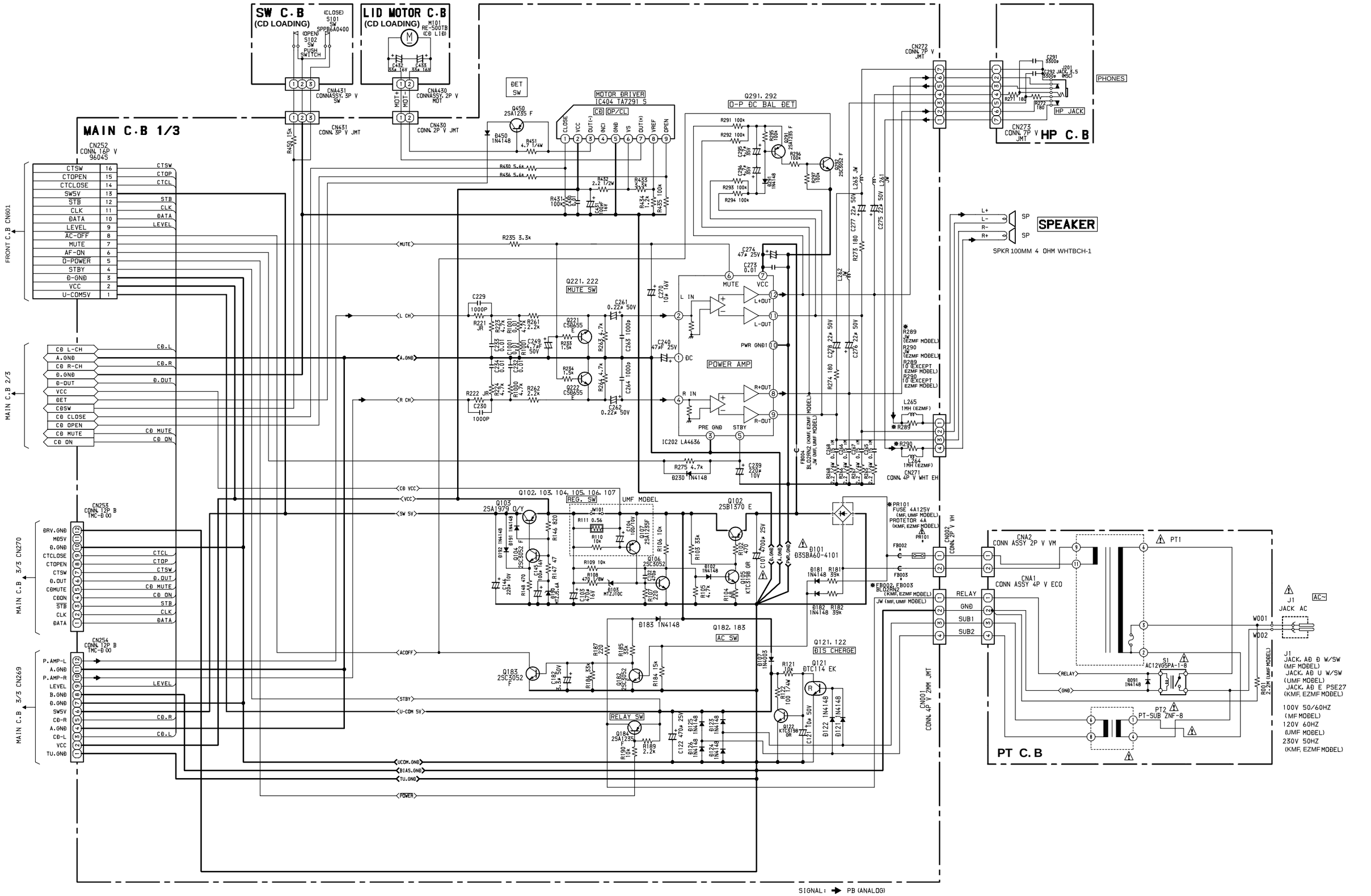
No	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
COM1	—	—	COM1	2a	2h	2f	1a	1h	QSU	ROCK	W3	W1	VOL	TAPE	1	6a	RAN
COM2	—	COM2	—	2b	2g	2e	1b	1g	1f	POP	W4	MEMO	S8	3h	3b,c	6g	6b
COM3	COM3	—	—	2c	2 i	2d	1c	1d	1e	JAZZ	W5	—	P1	3 i	3g	6d	6c

No	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
COM1	TUNER	7a	kHz	CD	S1	REC	S3	W6	CLO	6f	5b	5a	T–B	4b	4a	W2
COM2	7f	7g	7b	STE	S2	S5	S7	W7	TIM	6e	5c	5g	5f	4c	4g	4f
COM3	7e	7d	7c	MONO	MHz	S4	S6	W8	SLE	P4	P3	5d	5e	P2	4d	4e

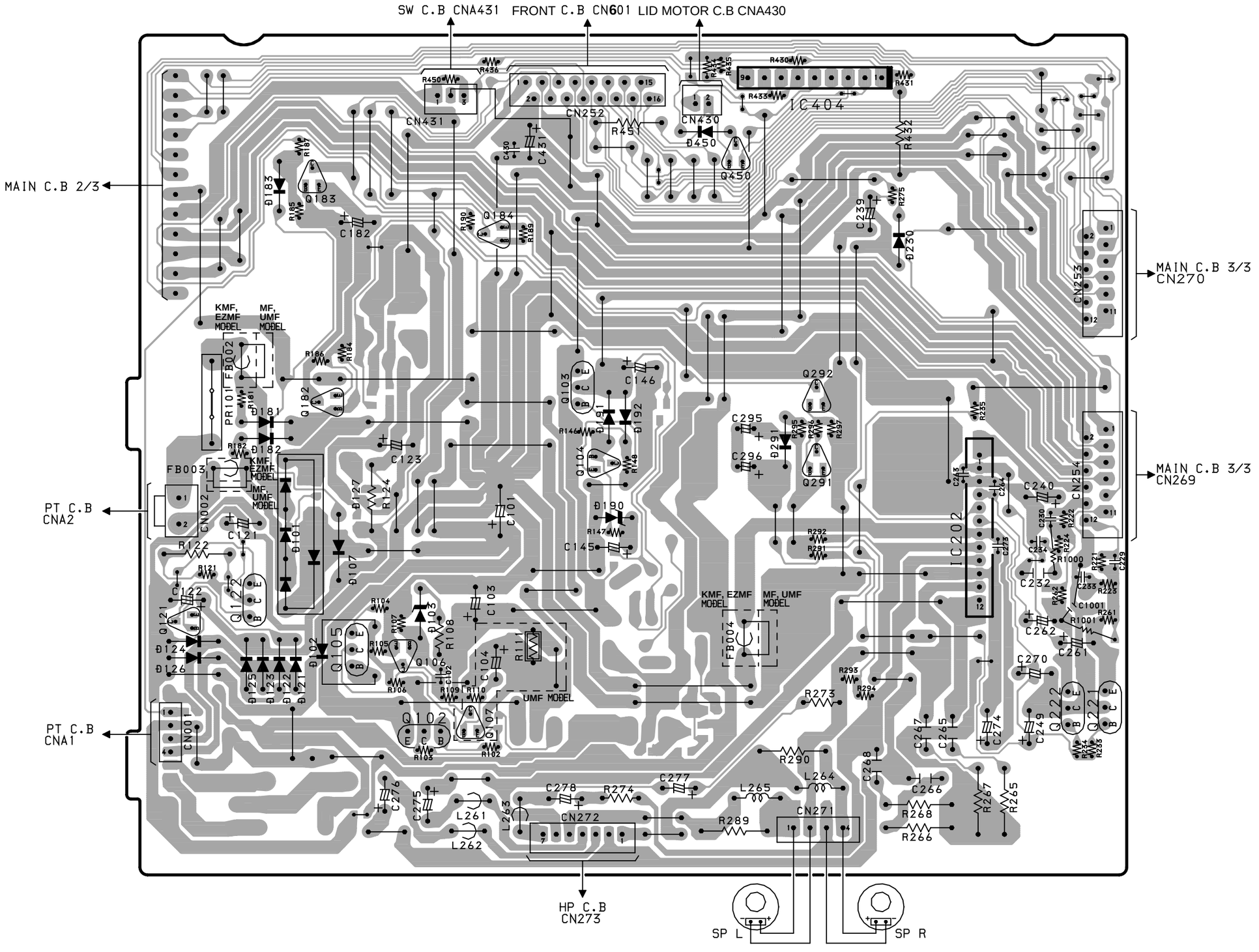
BLOCK DIAGRAM-1/1



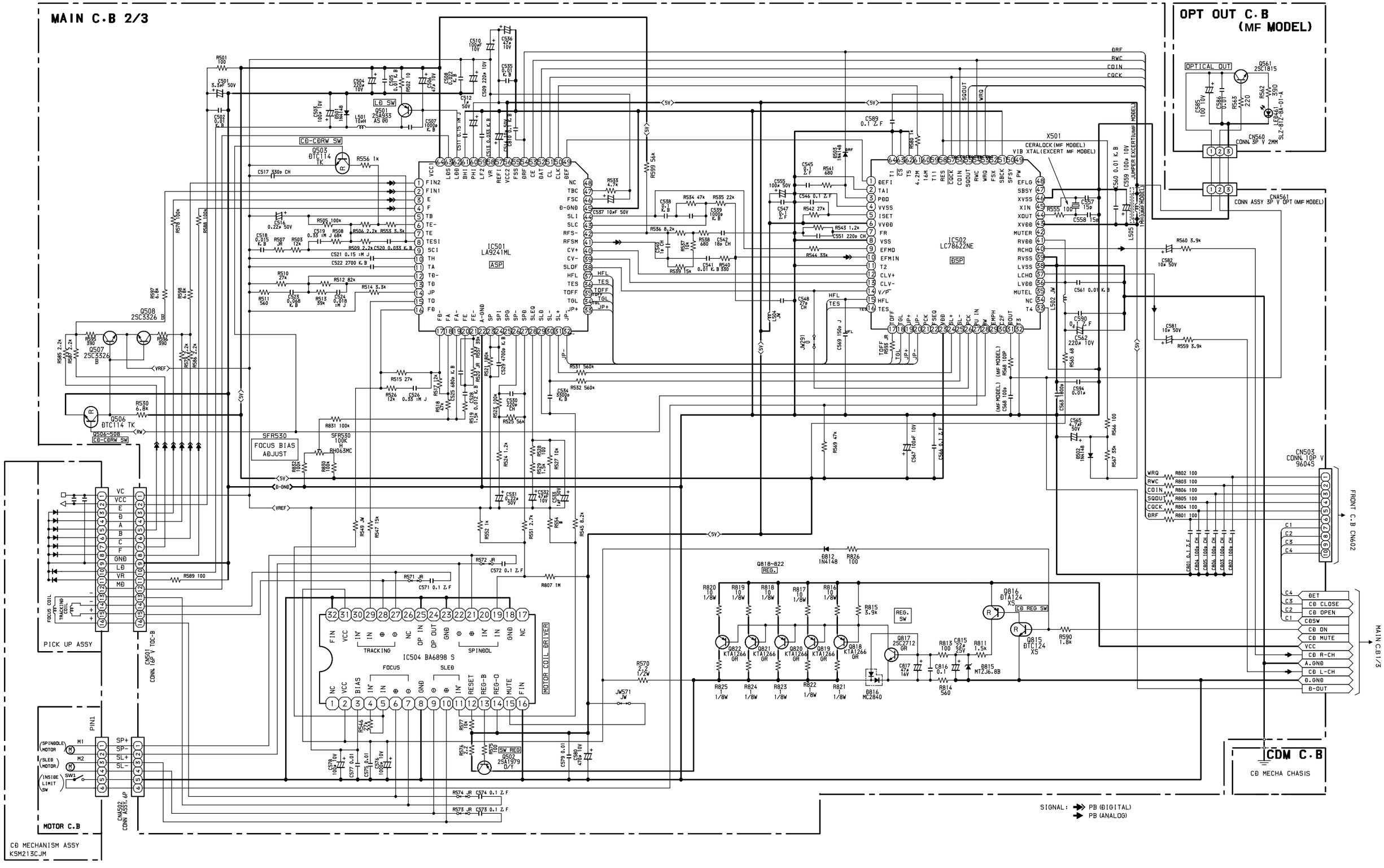
SCHEMATIC DIAGRAM-1/6 (MAIN 1/3)



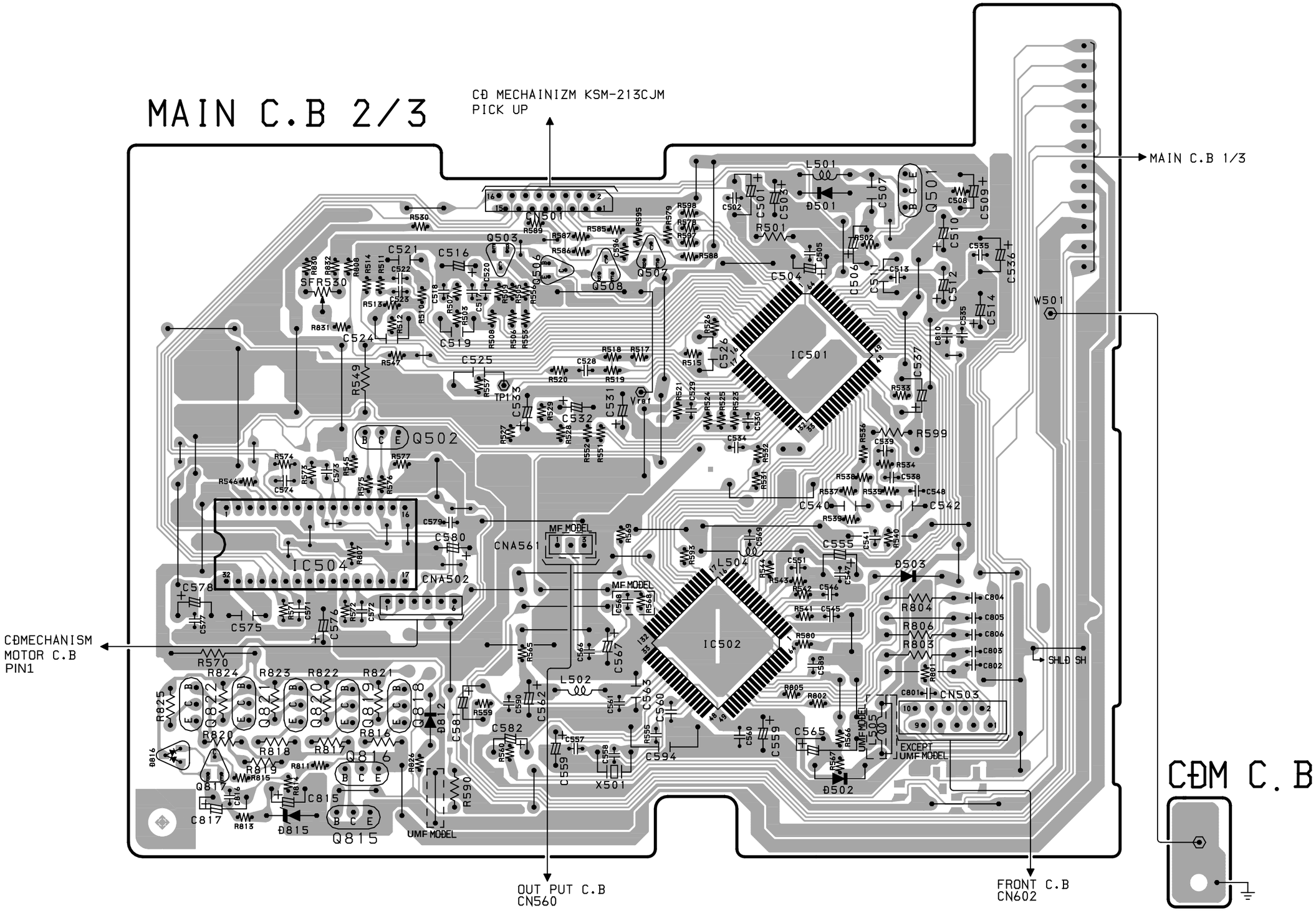
MAIN C.B 1/3


SW C.B CNA431
FRONT C.B CN601
LID MOTOR C.B CNA430
MAIN C.B 2/3
MAIN C.B 3/3 CN270
MAIN C.B 3/3 CN269
PT C.B CNA2
PT C.B CNA1
HP C.B CN273
SP L
SP R
KMF, EZMF MODEL
MF, UMF MODEL
UMF MODEL
CN431
CN252
CN430
IC404
IC202
CN253
CN254
CN002
CN001
CN272
CN271
FB003
FB002
FB004
PR101
Q450
Q183
Q184
Q182
Q103
Q104
Q292
Q291
Q121
Q122
Q105
Q106
Q102
Q107
Q222
Q221
D450
D183
D181
D182
D190
D291
D230
D124
D126
D125
D123
D122
D121
D102
D107
D101
C182
C123
C146
C295
C296
C239
C431
C430
C101
C103
C104
C145
C121
C122
C276
C275
C278
C277
C263
C240
C232
C262
C261
C270
C247
C265
C274
C249
C268
R450
R436
R451
R430
R433
R431
R435
R432
R275
R185
R187
R190
R189
R186
R184
R181
R146
R148
R147
R235
R236
R237
R292
R281
R293
R294
R273
R290
R289
R274
R122
R121
R124
R127
R125
R123
R122
R121
R104
R107
R105
R108
R106
R109
R110
R111
R103
R102
R1000
R1001
R222
R224
R221
R223
R242
R243
R261
R267
R268
R266
R265
L261
L262
L263
L264
L265
C1001
C1002
C229
C230
C233
C254
C273

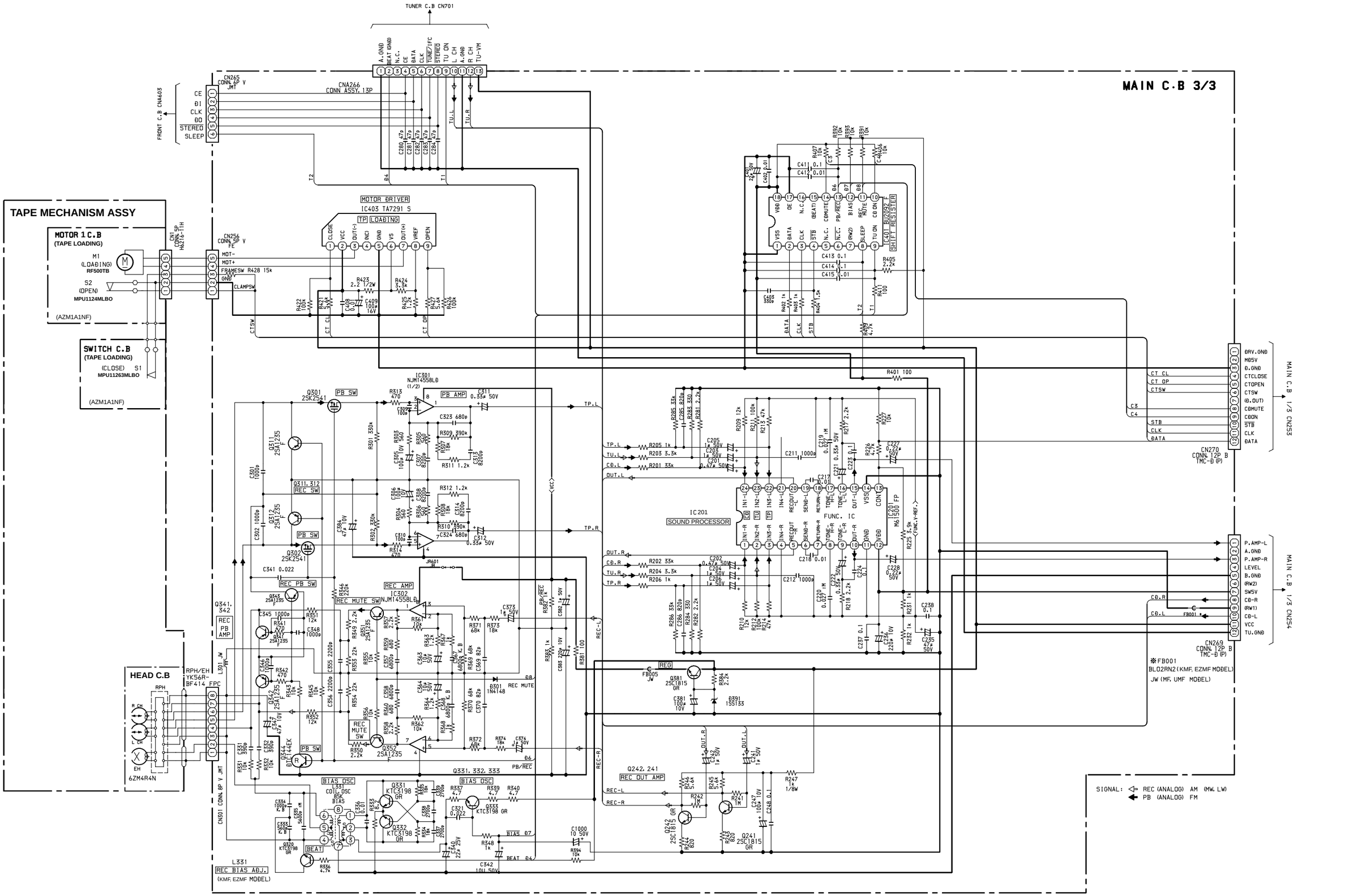
SCHEMATIC DIAGRAM-2/6 (MAIN 2/3)



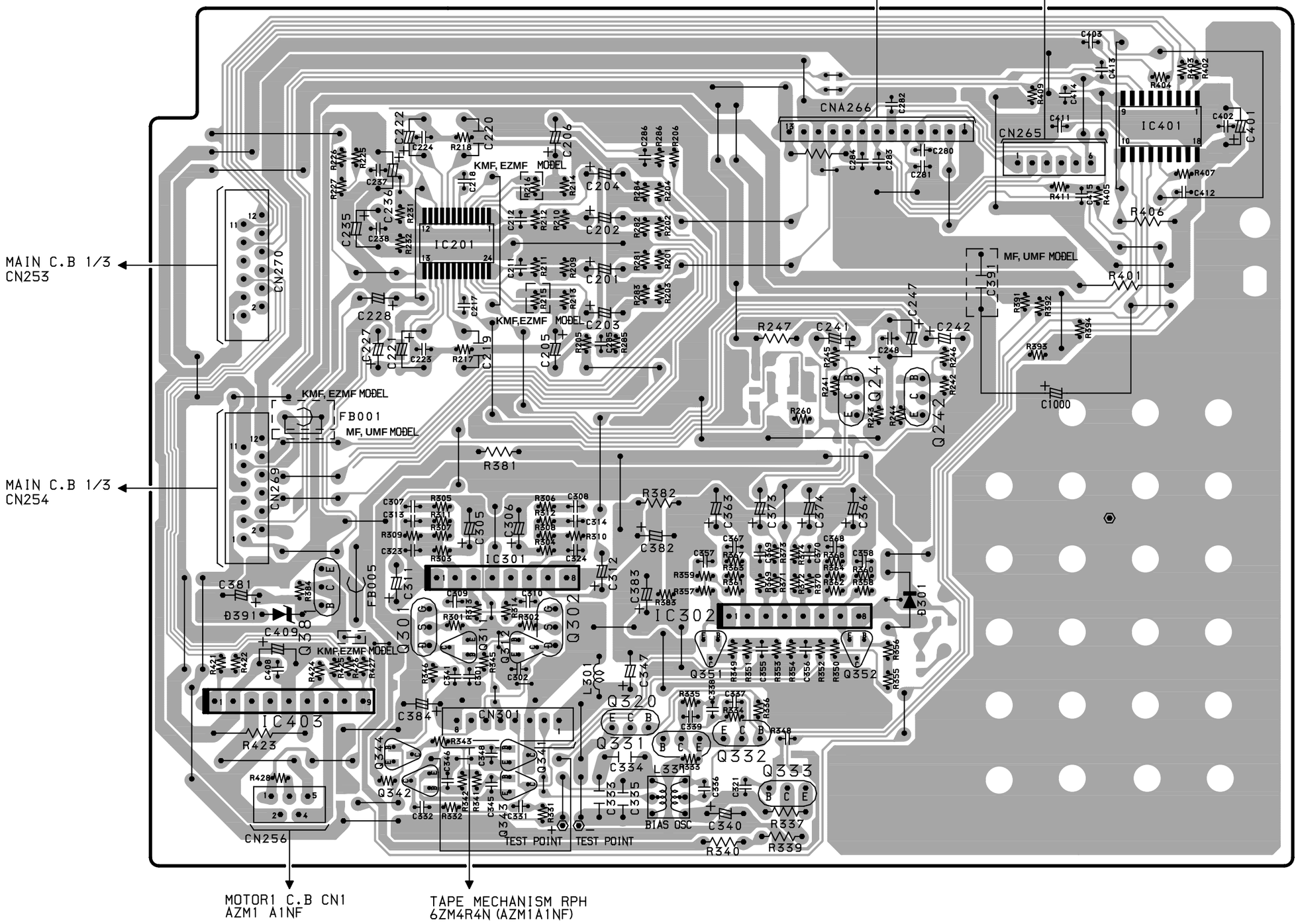
MAIN C.B 2/3


CĐ MECHAINIZM KSM-213CJM
PICK UP
MAIN C.B 1/3
W501
CĐMECHANISM
MOTOR C.B
PIN1
OUT PUT C.B
CN560
FRONT C.B
CN602
SHLĐ SH
CN501
CN503
IC501
IC502
IC504
Q501
Q502
Q503
Q504
Q505
Q506
Q507
Q508
Q815
Q816
Q817
Q818
Q819
Q820
Q821
Q822
Đ501
Đ502
Đ503
Đ812
Đ815
Đ816
L501
L502
L504
L505
X501
CNA561
CNA502
MF MODEL
UMF MODEL
EXCEPT
JUMF MODEL
SFR530
TP1
VR1
CĐM C.B

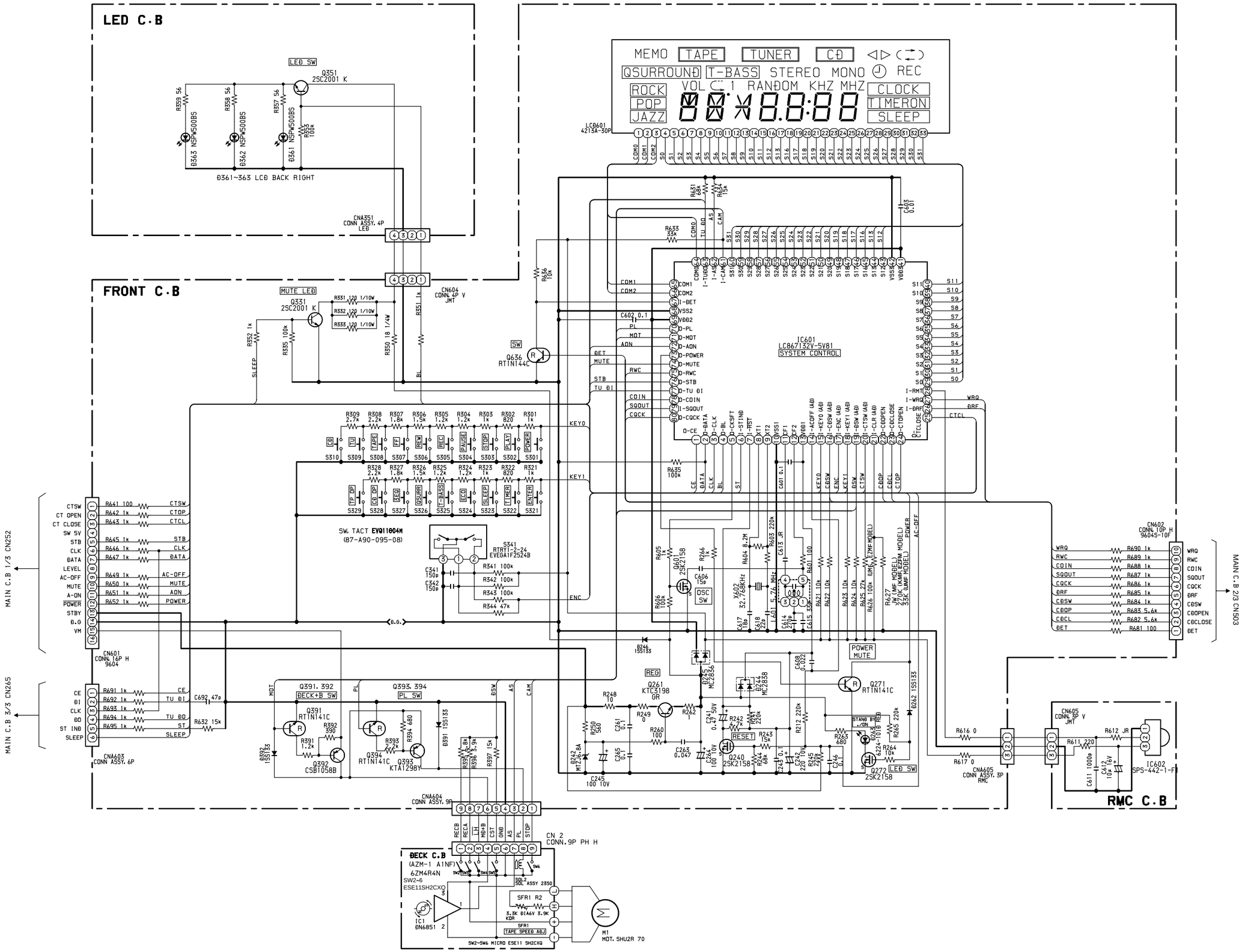
SCHEMATIC DIAGRAM-3/6 (MAIN 3/3)



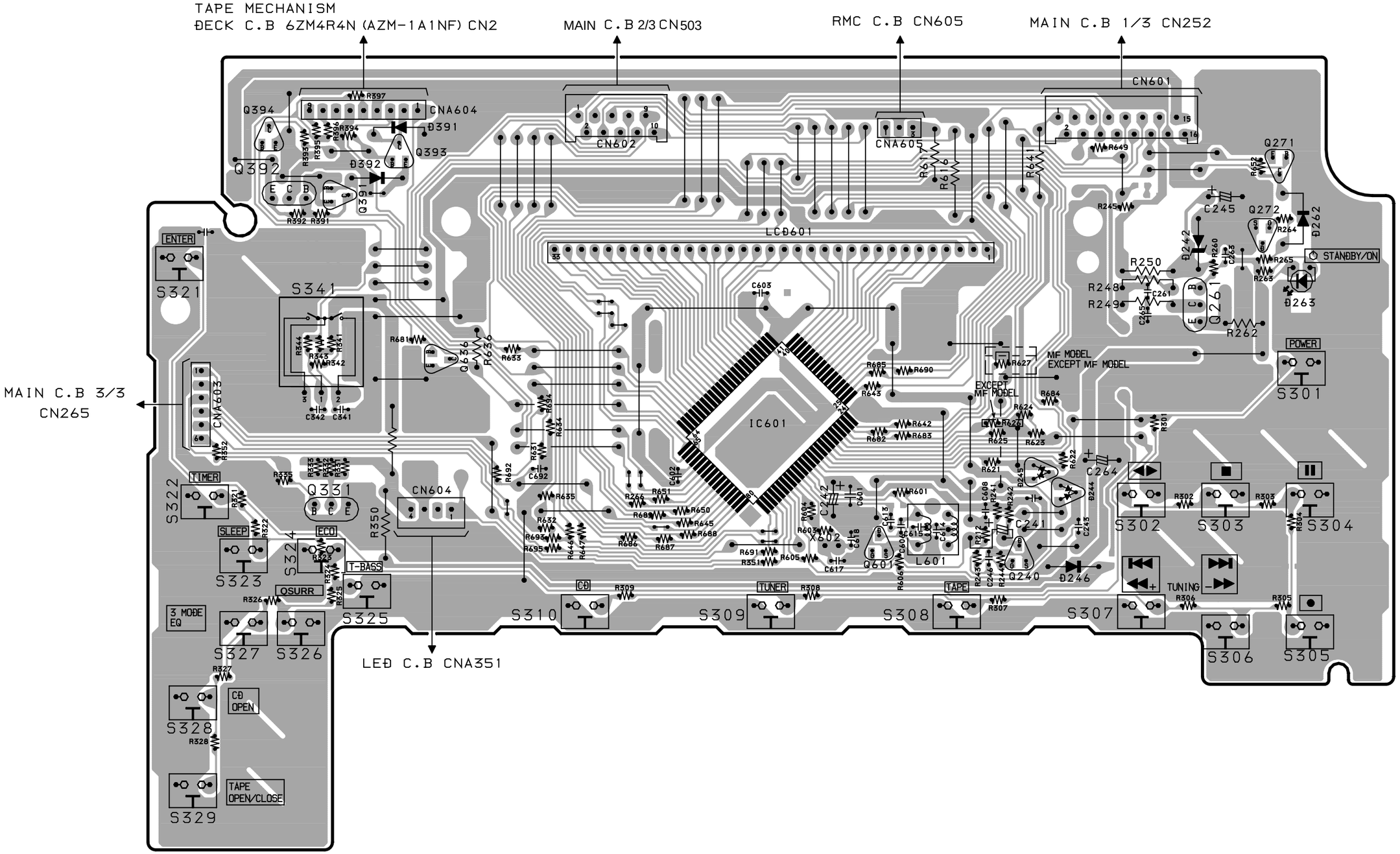
MAIN C.B 3/3


TUNER C.B CN701
FRONT C.B CNA603
MAIN C.B 1/3 CN253
MAIN C.B 1/3 CN254
MOTOR1 C.B CN1 AZM1 A1NF
TAPE MECHANISM RPH 6ZM4R4N (AZM1A1NF)
CNA266
CN265
IC401
IC201
IC301
IC302
IC403
CN270
CN269
CN256
CN301
KMF, EZMF MODEL
MF, UMF MODEL
FB001
FB005
Q241
Q242
Q301
Q302
Q320
Q331
Q332
Q333
Q342
Q352
D301
D391
BIAS OSC
TEST POINT
TEST POINT

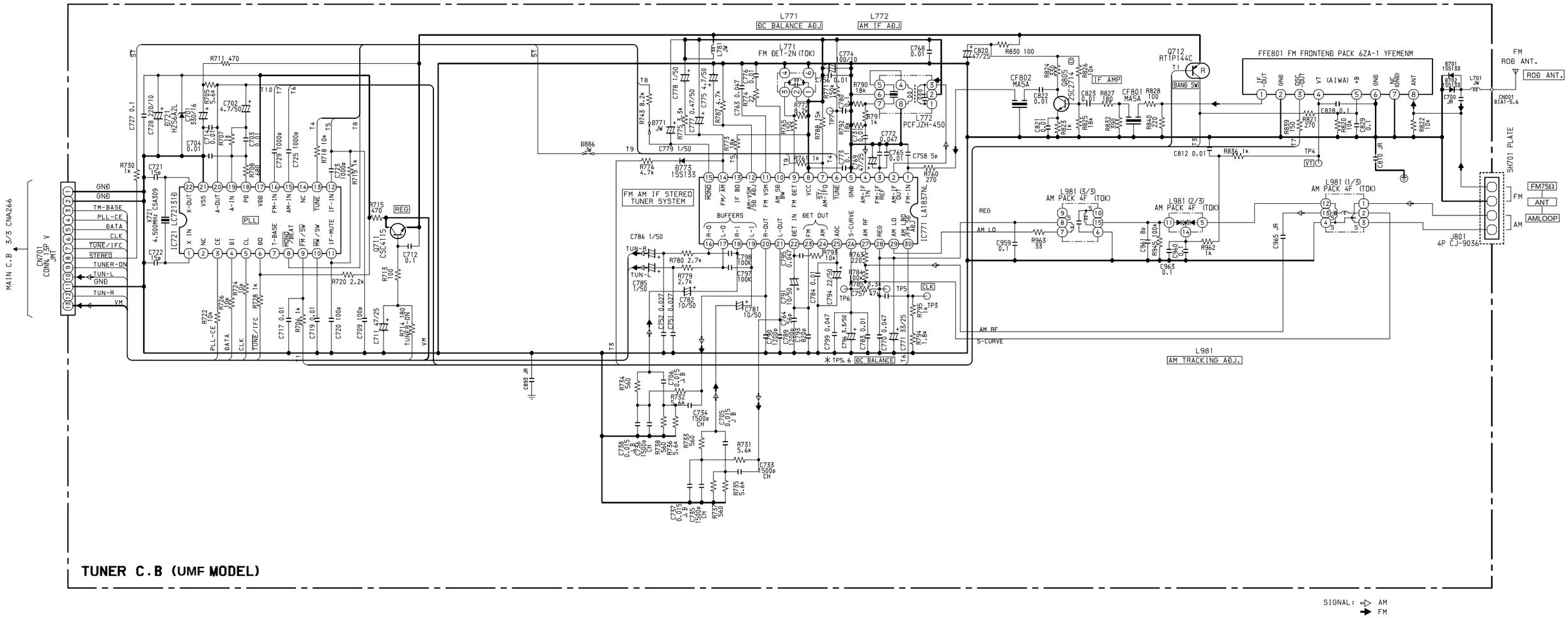
SCHEMATIC DIAGRAM-4/6 (FRONT)



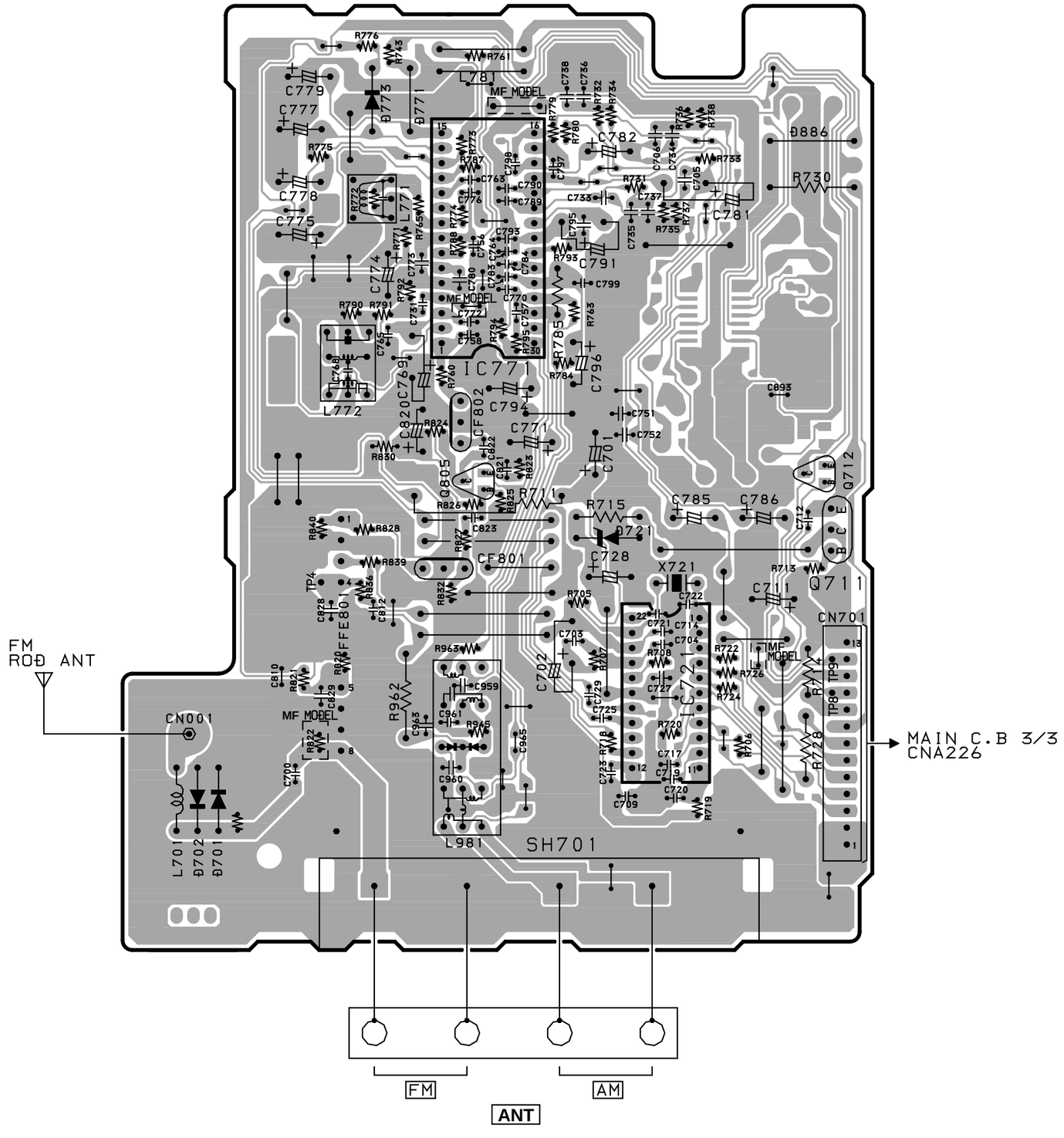
FRONT C.B


TAPE MECHANISM
ĐECK C.B 6ZM4R4N (AZM-1A1NF) CN2
MAIN C.B 2/3 CN503
RMC C.B CN605
MAIN C.B 1/3 CN252
MAIN C.B 3/3
CN265
LEĐ C.B CNA351
CNA604
CNA603
CNA605
CN602
CN601
CN604
LCĐ601
IC601
Q394
Q392
Q393
Đ391
Đ392
Q331
Q271
Q272
Đ262
Đ263
Đ242
Q261
Đ244
Đ246
Q240
Q601
L601
X602
ENTER
S321
S341
TIMER
S322
SLEEP
S323
ECO
S324
T-BASS
QSURR
S325
3 MODE EQ
S327
S326
CĐ OPEN
S328
TAPE OPEN/CLOSE
S329
CĐ
S310
TUNER
S309
TAPE
S308
S307
S306
S305
S302
S303
S304
POWER
S301
STANĐBY/ON
TUNING
MF MODEL
EXCEPT MF MODEL
EXCEPT MF MODEL

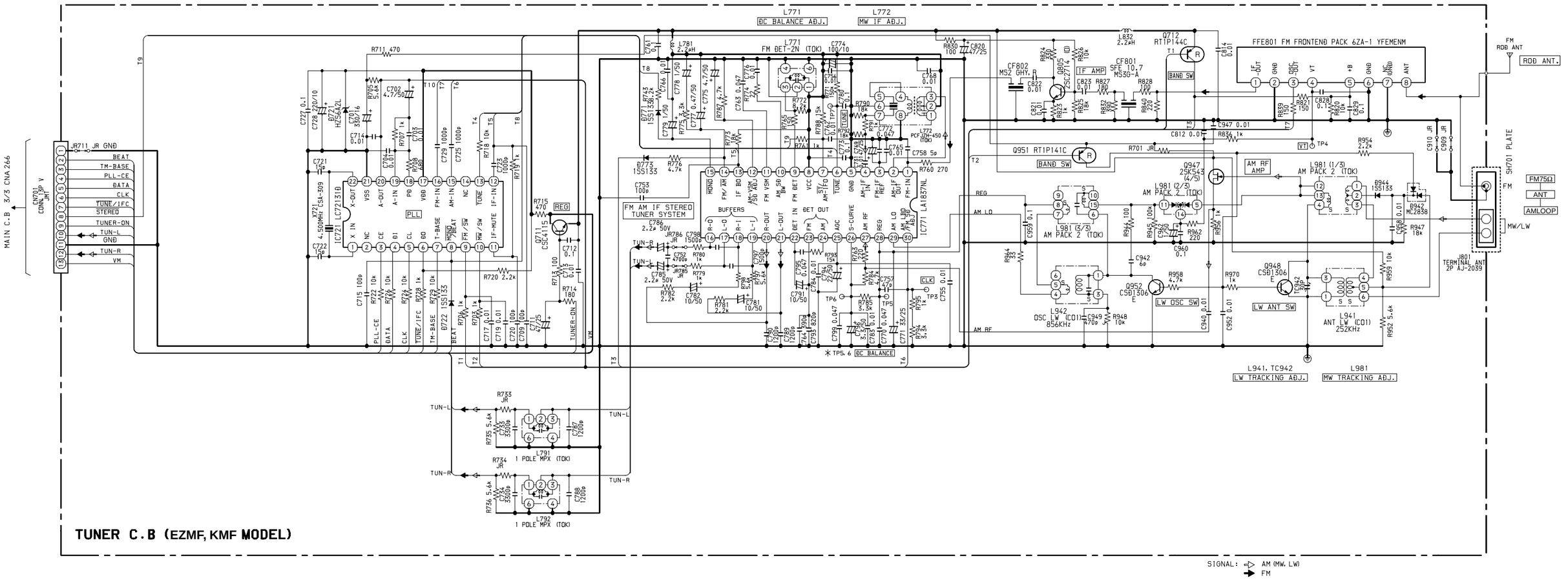
SCHEMATIC DIAGRAM-5/6 (TUNER, U)



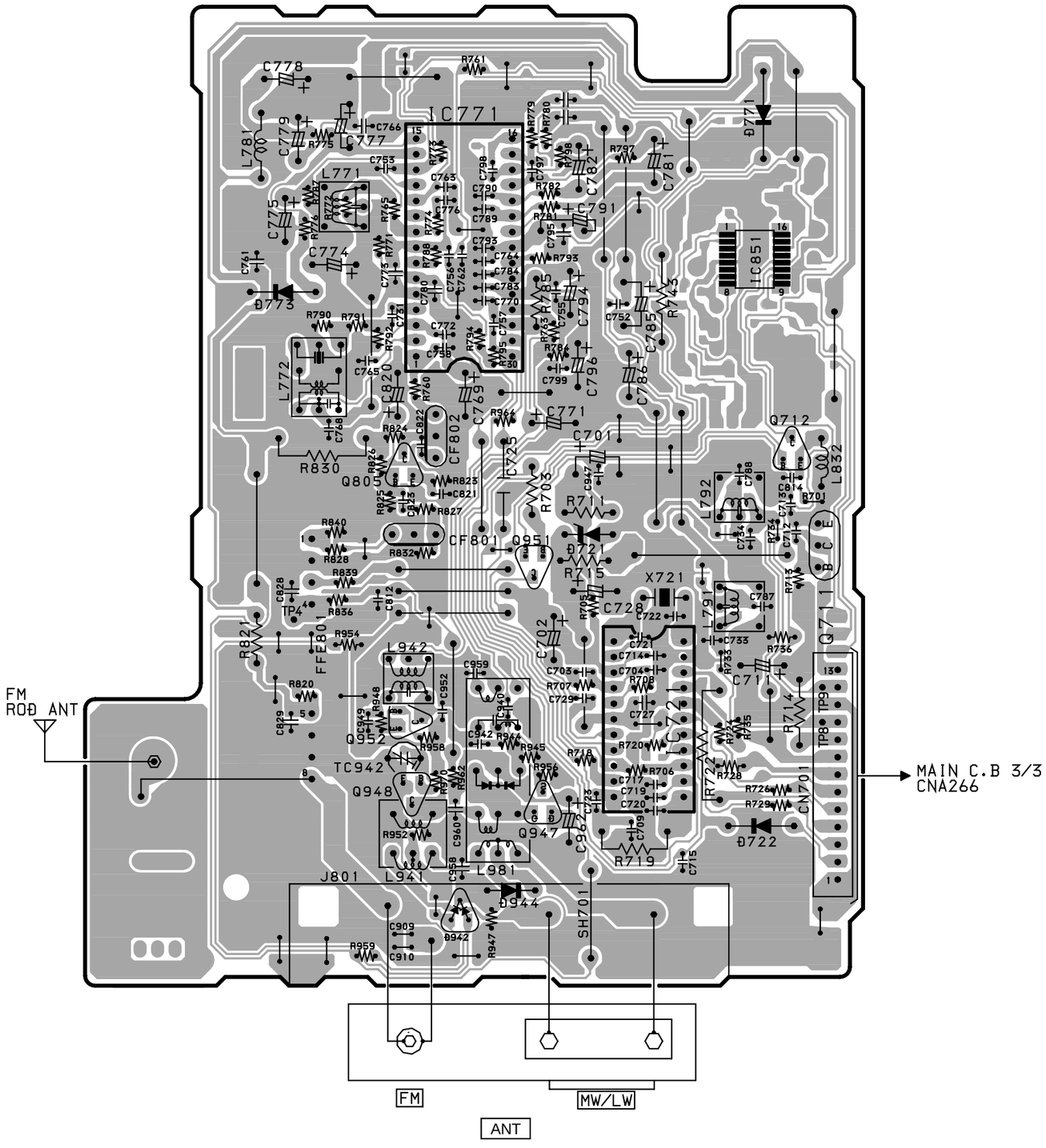
TUNER C.B (MF, UMF MODEL)

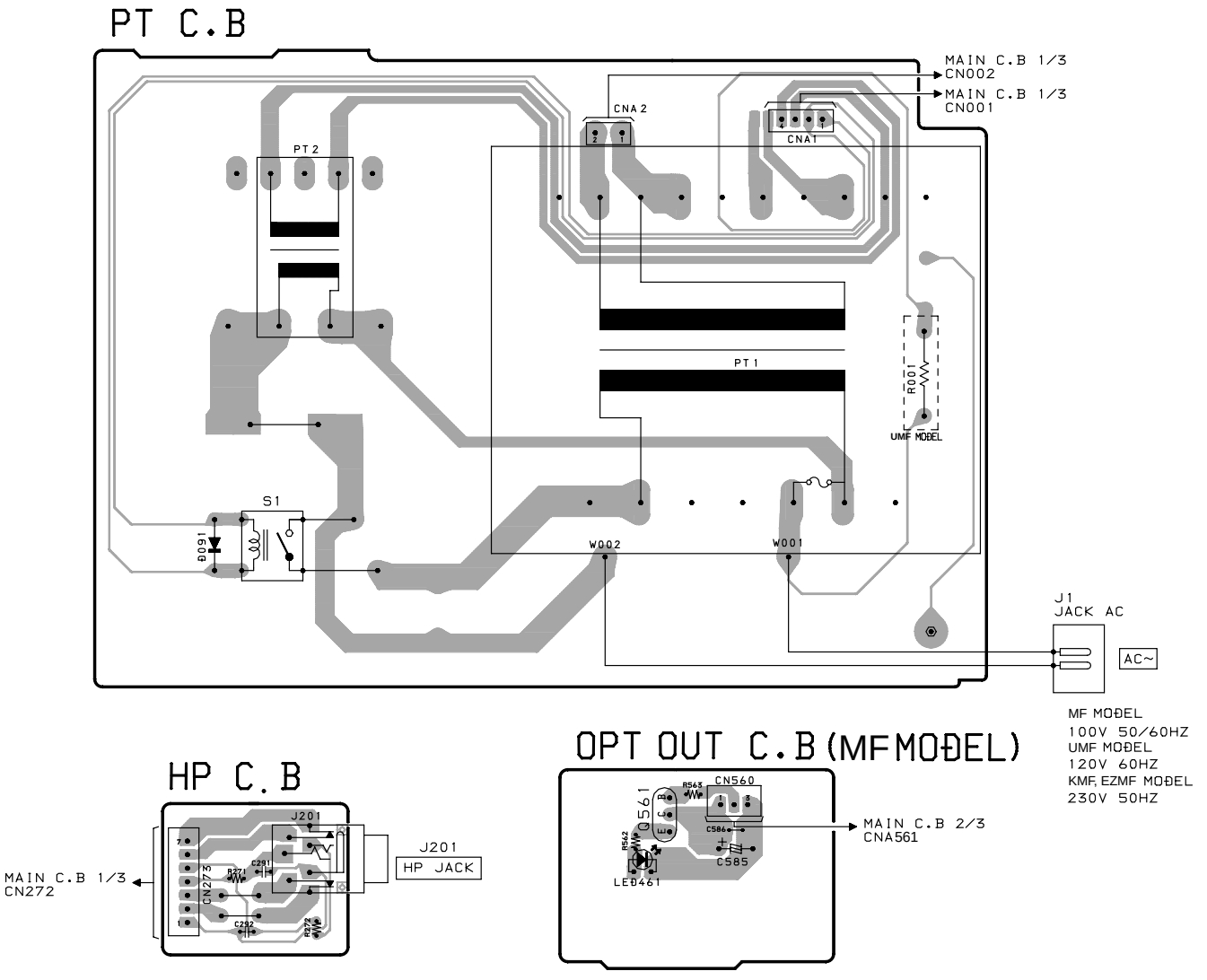


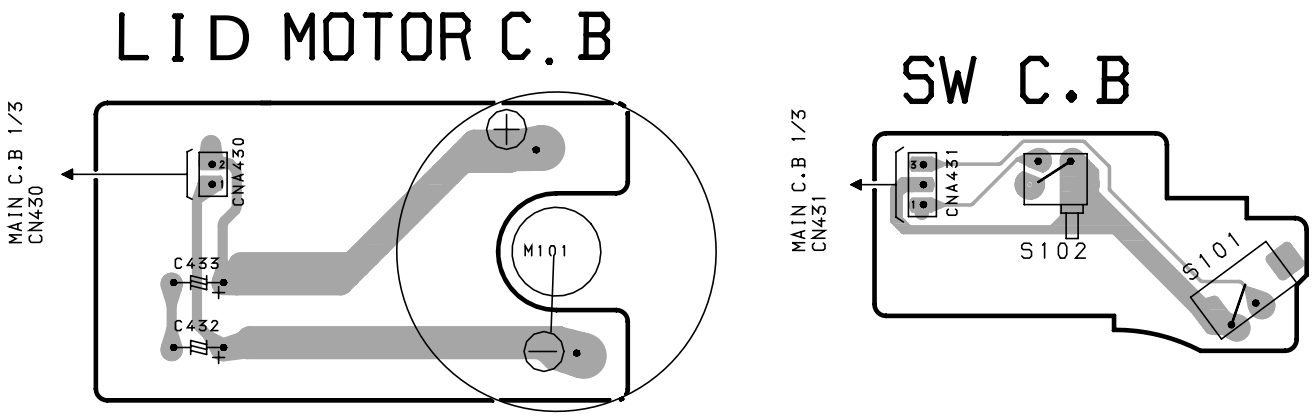
SCHEMATIC DIAGRAM-6/6 (TUNER, K, EZ)

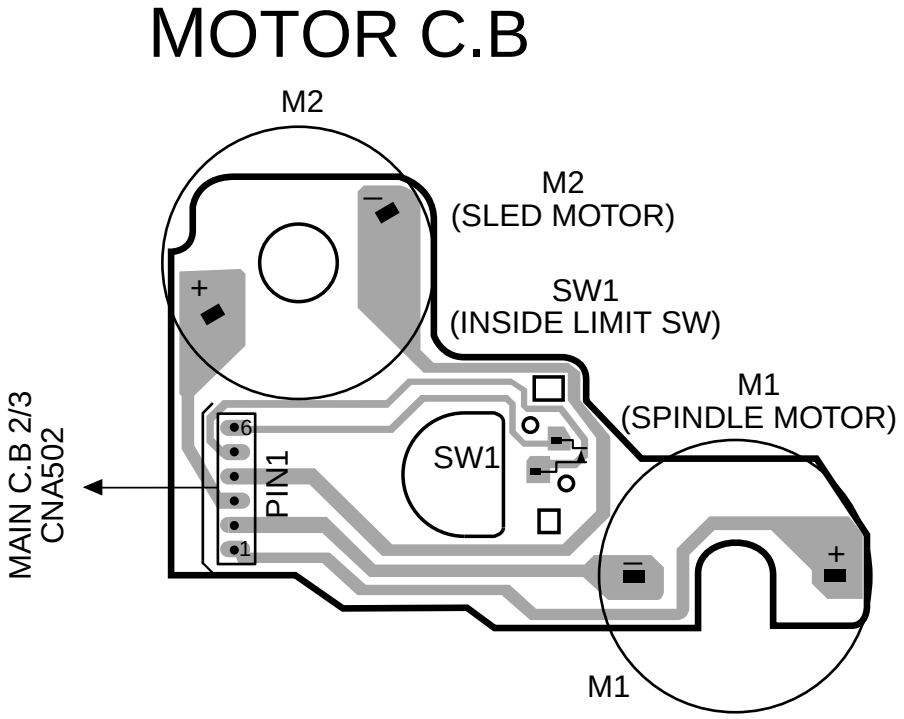


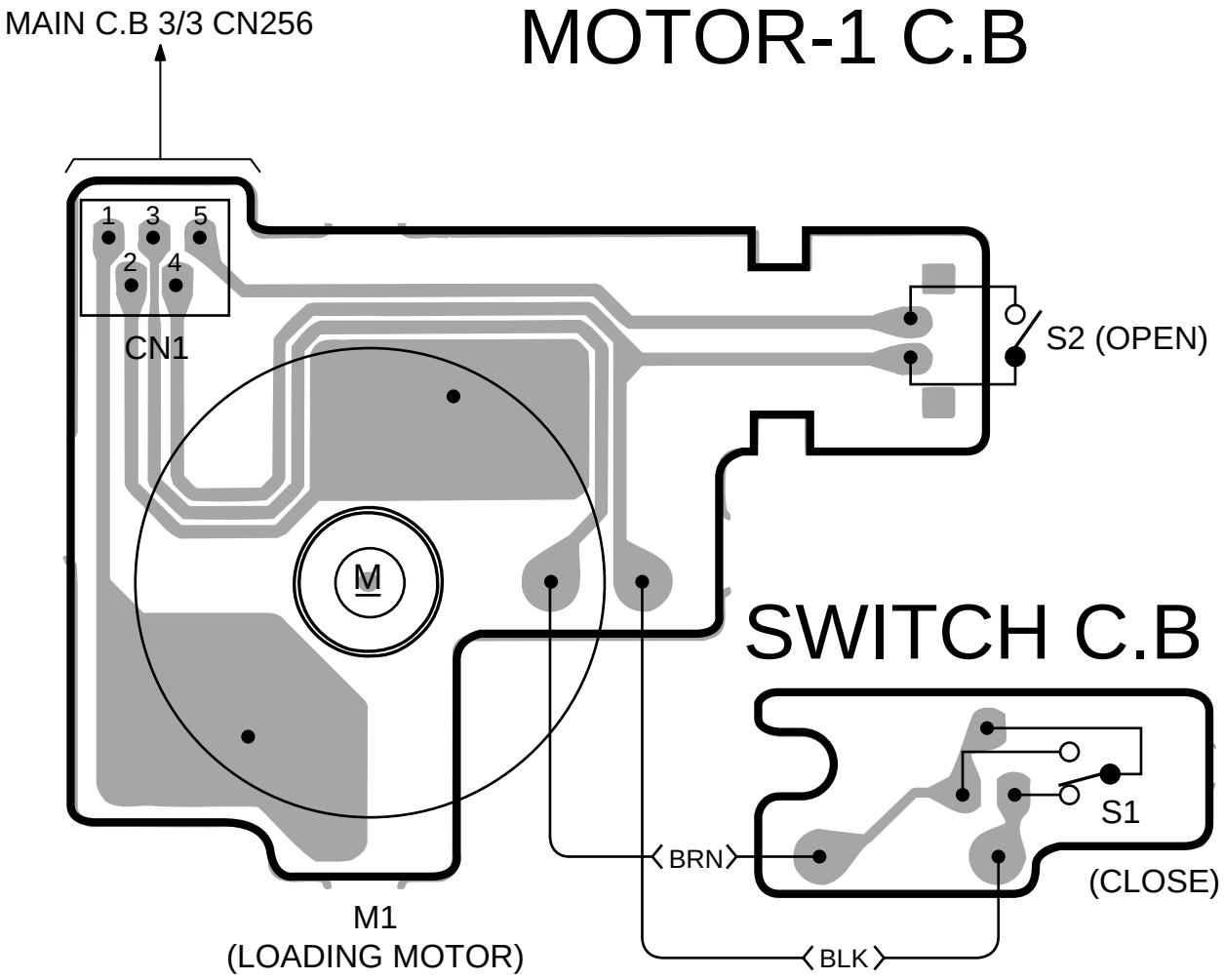
TUNER C.B (KMF, EZMF MODEL)

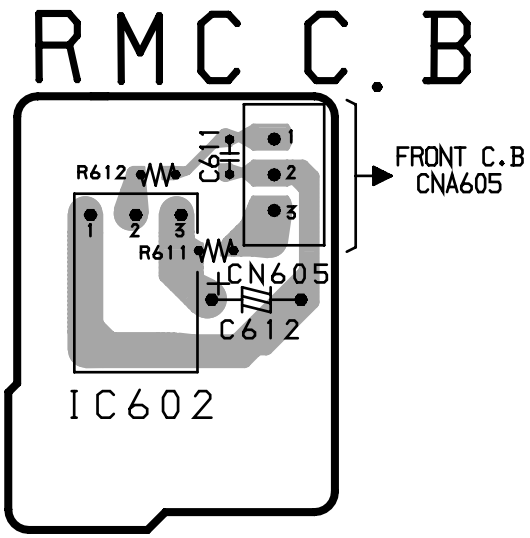


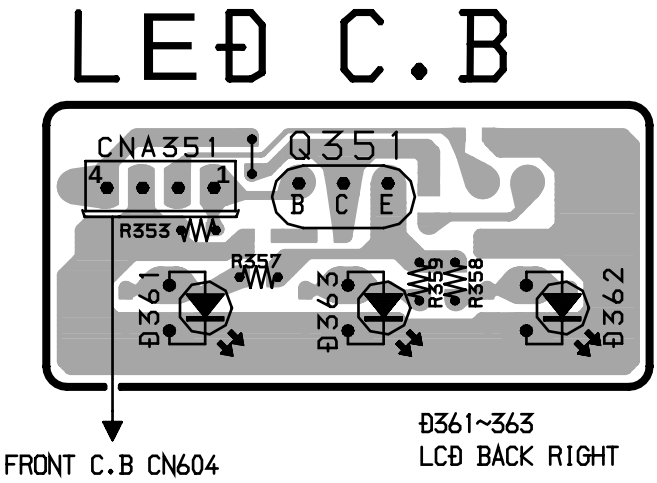

PT C.B
MAIN C.B 1/3
CN002
MAIN C.B 1/3
CN001
CNA2
CNA1
PT2
PT1
R001
UMF MODEL
S1
D091
W002
W001
J1
JACK AC
AC~
MF MODEL
100V 50/60HZ
UMF MODEL
120V 60HZ
KMF, EZMF MODEL
230V 50HZ
HP C.B
J201
MAIN C.B 1/3
CN272
CN273
R271
C291
C292
R272
J201
HP JACK
OPT OUT C.B (MF MODEL)
CN560
R563
C586
C585
R562
LED461
MAIN C.B 2/3
CNA561


LID MOTOR C.B
MAIN C.B 1/3
CN430
CNA430
C433
C432
M101
SW C.B
MAIN C.B 1/3
CN431
CNA431
S102
S101

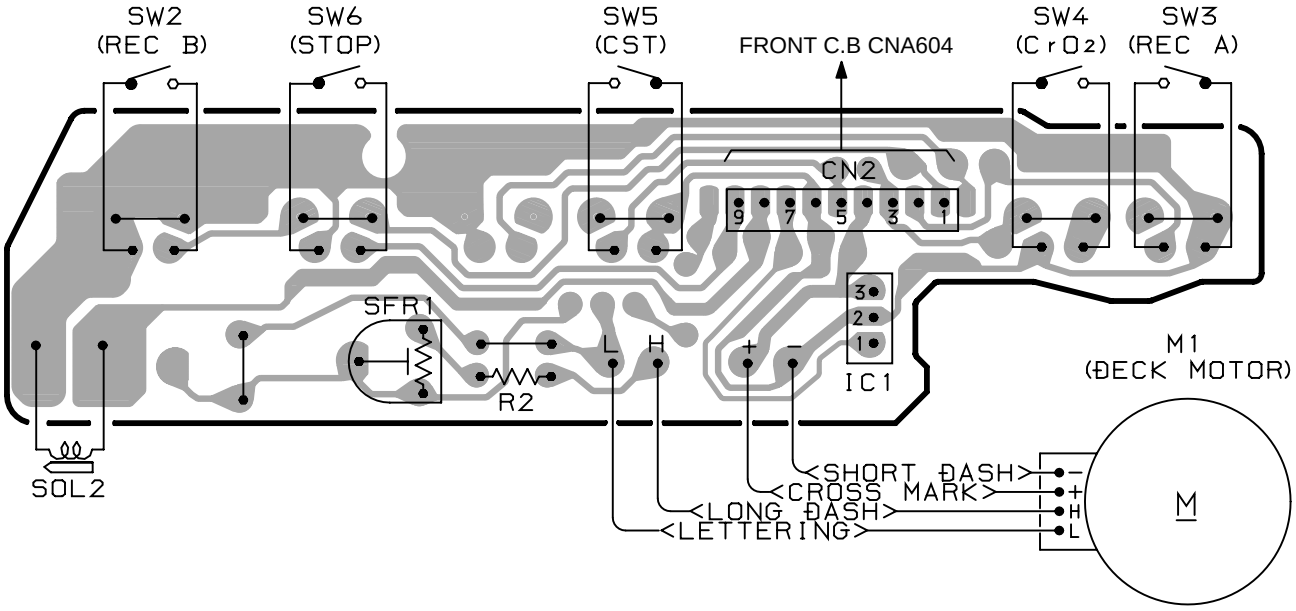

MOTOR C.B
M2
M2
(SLED MOTOR)
SW1
(INSIDE LIMIT SW)
M1
(SPINDLE MOTOR)
MAIN C.B 2/3
CNA502
PIN1
SW1
M1


MAIN C.B 3/3 CN256
MOTOR-1 C.B
1 3 5
2 4
CN1
S2 (OPEN)
M
SWITCH C.B
S1
(CLOSE)
BRN
BLK
M1
(LOADING MOTOR)

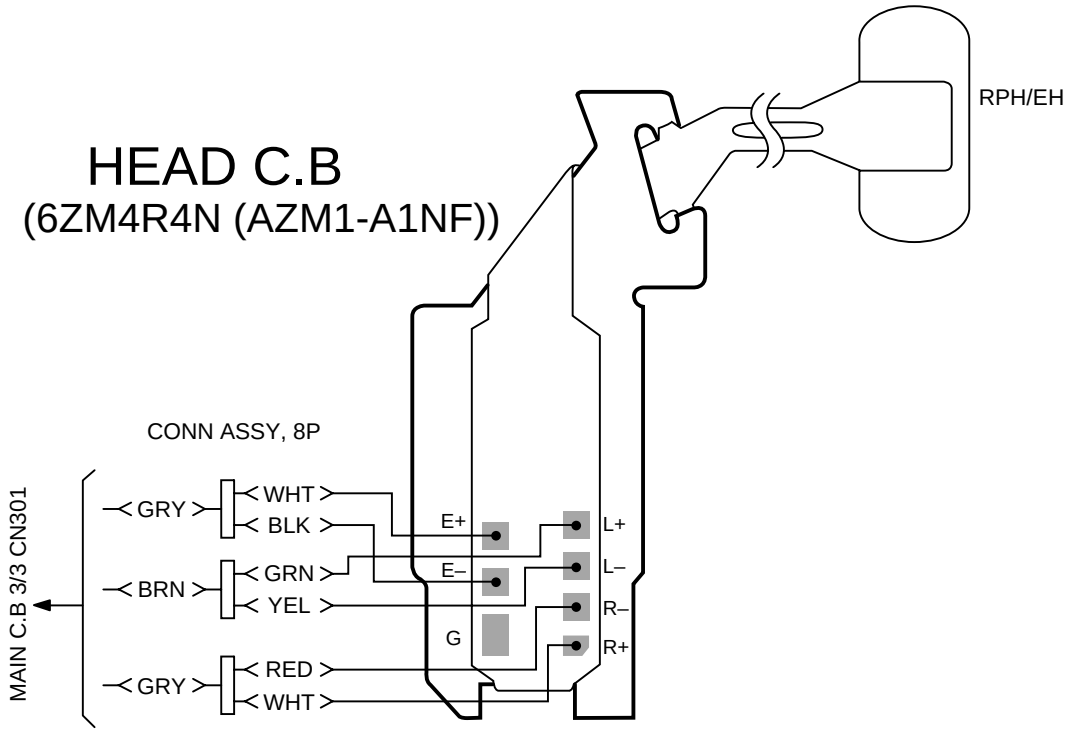

RMC C.B
R612
C611
R611
CN605
C612
IC602
FRONT C.B
CNA605


LED C.B
CNA351
Q351
B C E
R353
R357
R356
R358
D361
D363
D362
FRONT C.B CN604
D361~363
LCD BACK RIGHT

DECK C.B (6ZM4R4N (AZM1-A1NF))

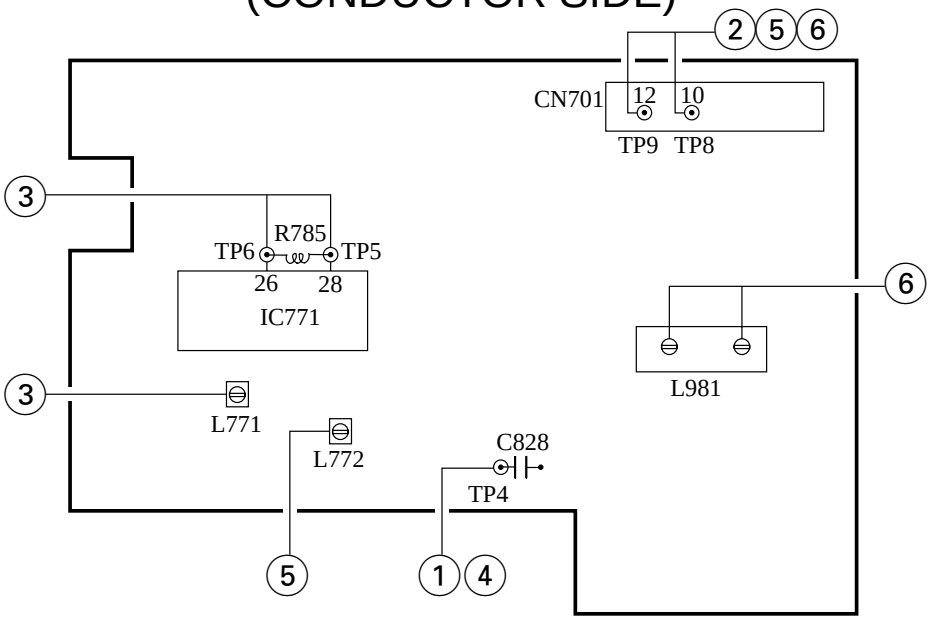


HEAD C.B
(6ZM4R4N (AZM1-A1NF))



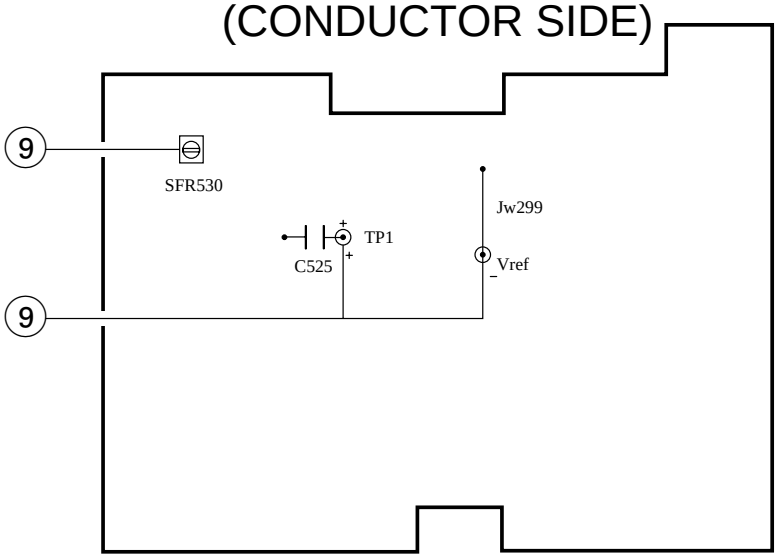
TUNER C.B

(CONDUCTOR SIDE)



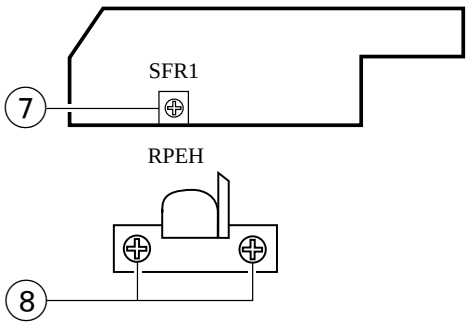
MAIN C.B 2/3 (CD)

(CONDUCTOR SIDE)



DECK C.B

(CONDUCTOR SIDE)



ELECTRICAL ADJUSTMENT-2/4 (U MODEL)

< TUNER SECTION >

1. FM VT Check
   Settings: • Test point: TP4
   Method: Set to FM 87.5MHz, 108.0MHz and check that the test point is more than 0.4V (87.5MHz) and less than 9.0V (108.0MHz).
2. FM TARCKING check
   Settings: • Test point: TP8 (Lch)
   TP9 (Rch)
   Method: Set to FM 98.0MHz and check that the test point is less than 9.0dBµV.

3. DC Balance Adjustment
   Settings: • Test point: TP5, TP6
   • Adjustment location: L771
   • Input level: 50dBµV
   Method: Set to FM 83.0MHz, 98.0MHz and adjust L771 so that the voltage between TP5 and TP6 becomes 0V±0.04V.

4. VT AM check
   Settings: • Test point: TP4
   Method: Set to AM 1710kHz, 530kHz and check that the test point is more than 0.6V (530kHz) and less than 8.5V (1710kHz) .

5. AM IF Adjustment
   Settings: • Test point: TP8 (Lch)
   TP9 (Rch)
   • Adjustment location: L772
   Method: Set to AM 999kHz, 1000kHz and adjust L772 so that the Wave to maximum.

6. AM Tracking Adjustment
   Settings: • Test point: TP8 (Lch)
   TP9 (Rch)
   • Adjustment location: L981
   Method: Set to AM 999kHz, 1000kHz and adjust L981 so that the test point is less than 58dBµ, lock it with PARAPFIN.

< DECK SECTION >

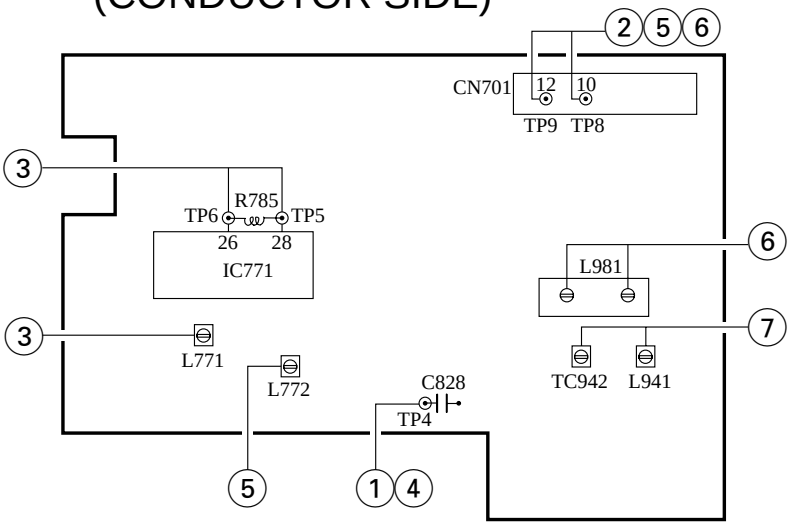
7. Tape speed Adjustment
   Settings: • Test tape: TTA-100
   • Test point: PHONES JACK (J201)
   • Adjustment location: SFR1
   Method: Play back the test tape and adjust so that the output frequency is 3000Hz ±30Hz.

8. Azimuth Adjustment
   Settings: • Test tape: TTA-320
   • Test point: PHONES JACK (J201)
   • Adjustment location: Azimuth adjustment screw
   Method: Play back the test tape and adjust so that the output is maximum.

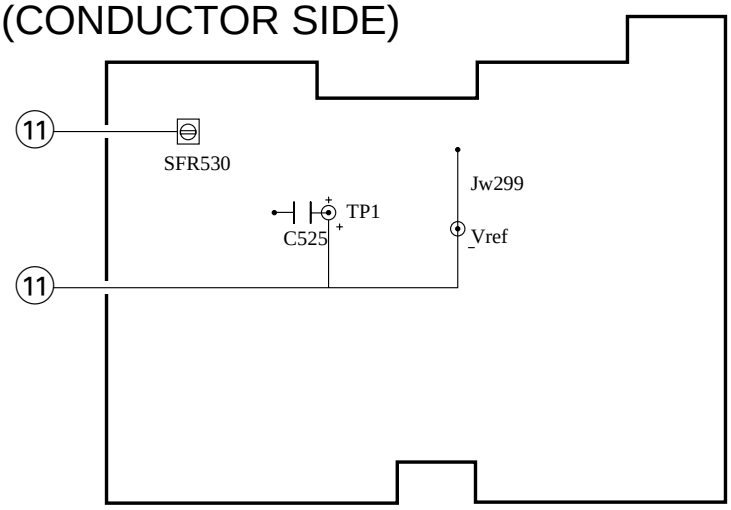
< CD SECTION >

9. CD Focus Bias Adjustment
   Settings: • Test Disc : TCD-782
   • Test point: TP1 ⊕
   Vref ⊖
   • Adjustment location: SFR530
   Method: Play back the test CD track 2 and adjust so that the output level is DC 0mV±10mV.

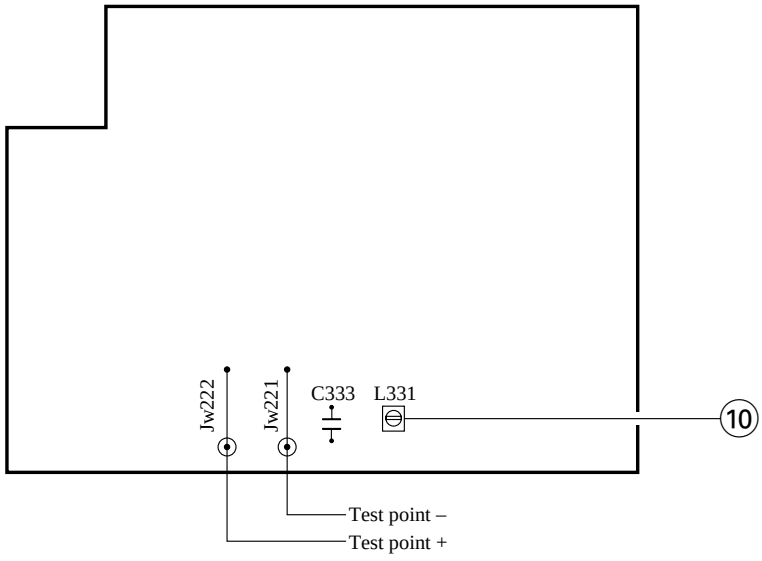
TUNER C.B (CD)
(CONDUCTOR SIDE)



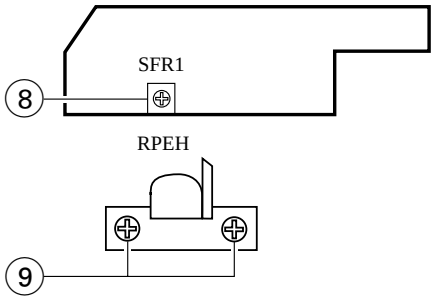
MAIN C.B 2/3 (CD)
(CONDUCTOR SIDE)



MAIN C.B 3/3
(CONDUCTOR SIDE)



DECK C.B
(CONDUCTOR SIDE)



ELECTRICAL ADJUSTMENT-4/4 (K, EZ MODEL)

< TUNER SECTION >

1. FM VT Check
   Settings: • Test point: TP4
   Method: Set to FM 87.5MHz, 108.6MHz and check that the test point is more than 0.5V (87.5MHz) and less than 8.0V (108.6MHz).

2. FM TRACKING Check
   Settings: • Test point: TP8 (Lch)
   TP9 (Rch)
   Method: Set to FM 98.0MHz and check that the test point is less than 13dBµV.

3. DC Balance Adjustment
   Settings: • Test point: TP5, TP6
   • Adjustment location: L771
   • Input level: 50dBµV
   Method: Set to FM 83.0MHz, 98.0MHz and adjust L771 so that the voltage between TP5 and TP6 becomes 0V±0.04V.

4. VT MW Check
   Settings: Test point: TP4
   Method: Set to AM 1602kHz, 531kHz and check that the test point is more than 0.6V (531kHz) and less than 8.0V (1602kHz).

5. AM IF Adjustment
   Settings: • Test point: TP8 (Lch)
   TP9 (Rch)
   • Adjustment location: L772
   Method: Set to MW 999kHz, 1000kHz and adjust L772 so that the Wave to maximum.

6. MW Tracking Adjustment
   Settings: • Test point: TP8 (Lch)
   TP9 (Rch)
   • Adjustment location: L981
   Method: Set to MW 999kHz, 1000kHz and adjust L981 so that the test point is less than 58dBµV and becomes maximum. After adjust, lock it with PARAPFIN.

7. LW Tracking Adjustment
   Settings: • Test point: TP8 (Lch)
   TP9 (Rch)
   • Adjustment location: L941 (Low)
   TC942 (Hight)
   Method: Set to LW 144kHz, 290kHz and adjust L941, TC942 so that the test point is less than 70dBµV(low), 66dBµV(hight) . After adjust, lock it with PARAPFIN.

< DECK SECTION >

8. Tape speed Adjustment
   Settings: • Test tape: TTA-100
   • Test point: PHONES JACK (J201)
   • Adjustment location: SFR1
   Method: Play back the test tape and adjust so that the output frequency is 3000Hz ±30Hz.

9. Azimuth Adjustment
   Settings: • Test tape: TTA-320
   • Test point: PHONES JACK (J201)
   • Adjustment location: Azimuth adjustment screw
   Method: Play back the test tape and adjust so that the output is maximum.

10. REC Bias Adjustment
    Settings: • Test tape : TTA: 602
    • Test point: JW222 ⊕
    JW221 ⊖
    • Adjustment location: L331
    Method: Rec play the test tape and adjust so that the test point frequency is 83kHz±0.5kHz.

< CD SECTION >

11. CD Focus BIAS Adjustment
    Settings: • Test Disc: TCD-782
    • Test point: TP1 ⊕
    Vref ⊖
    • Adjustment location: SFR530
    Method: Play back the test CD track 2 and adjust so that the output level is DC 0mV±10mV.

Pin No.	Pin Name	I/O	Description
1	FIN2	I	Pin to which external pickup photo diode is connected. RF signal is created by adding with the FIN1 pin signal. FE signal is created by subtracting from the FIN1 pin signal.
2	FIN1	I	Pin to which external pickup photo diode is connected.
3	E	I	Pin to which external pickup photo diode is connected. TE signal is created by subtracting from the F pin signal.
4	F	I	Pin to which external pickup photo diode is connected.
5	TB	I	DC component of the TE signal is input.
6	TE-	I	Pin to which external resistor setting the TE signal gain is connected between the TE pin.
7	TE	O	TE signal output pin.
8	TESI	I	TES “Track Error Sense” comparator input pin. TE signal is passed through a band-pass filter then input.
9	SCI	I	Shock detection signal input pin.
10	TH	I	Tracking gain time constant setting pin.
11	TA	O	TA amplifier output pin.
12	TD-	I	Pin to which external tracking phase compensation constants are connected between the TD and VR pins.
13	TD	I	Tracking phase compensation setting pin.
14	JP	I	Tracking jump signal (kick pulse) amplitude setting pin.
15	TO	O	Tracking control signal output pin.
16	FD	O	Focusing control signal output pin.
17	FD-	I	Pin to which external focusing phase compensation constants are connected between the FD and FA pins.
18	FA	I	Pin to which external focusing phase compensation constants are connected between the FD– and FA– pins.
19	FA-	I	Pin to which external focusing phase compensation constants are connected between the FA and FE pins.
20	FE	O	FE signal output pin.
21	FE-	I	Pin to which external FE signal gain setting resistor is connected between the FE pin.
22	AGND	—	Analog signal GND.
23	SP	O	Signal ended output of the CV+and CV- pin input signal.
24	SPI	I	Spndle amp input.
25	SPG	I	Pin to which external spindle gain setting resistor in 12 cm mode is connected.
26	SP-	I	Pin to which external spindle phase compensation constants are connected together with SPD pin.
27	SPD	O	Spindle control signal output pin.
28	SLEQ	I	Pin to which external sled phase compensation constants are connected.
29	SLD	O	Sled control signal output pin.
30, 31	SL-, SL+	I	Sled advance signal input pin from microprocessor.
32, 33	JP-, JP+	I	Tracking jump signal input pin from DSP.
34	TGL	I	Tracking gain control signal input from DSP. Low gain when TGL = H.
35	TOFF	I	Tracking off control signal input pin from DSP. Off when TOFF = H.

Pin No.	Pin Name	I/O	Description
36	TES	O	Pin from which TES signal is output to DSP.
37	HFL	O	“High Frequency Level” is used to judge whether the main beam position is on top of bit or on top of mirror.
38	SLOF	I	Sled servo off control input pin.
39, 40	CV–, CV+	I	CLV error signal input pin from DSP.
41	RFSM	O	RF output pin.
42	RFS-	I	RF gain setting and EFM signal 3T compensation constant setting pin together with RFSM pin.
43	SLC	O	“Slice Level Control” is the output pin which controls the RF signal data slice level by DSP.
44	SLI	I	Input pin which control the data slice level by the DSP.
45	DGND	—	Digital system GND.
46	FSC	O	Output pin to which external focus search smoothing capacitor is connected.
47	TBC	I	“Tracking Balance Control” EF balance variable range setting pin.
48	NC	—	No connection.
49	DEF	O	Disc defect detector output pin.
50	CLK	I	Reference clock input pin. 4.23 MHz of the DSP is input.
51	CL	I	Microprocessor command clock input pin.
52	DAT	I	Microprocessor command data input pin.
53	CE	I	Microprocessor command chip enable input pin.
54	DRF	O	“Detect RF” RF level detector output.
55	FSS	I	“Focus Search Select” focus search mode (± search/+ search) select pin. (Not connected)
56	VCC2	—	Servo system and digital system Vcc pin.
57	REFI	—	Pin to which external bypass capacitor for reference voltage is connected.
58	VR	O	Reference voltage output pin.
59	LF2	I	Disc defect detector time constant setting pin.
60	PHI	I	Pin to which external capacitor for RF signal peak holding is connected.
61	BHI	I	Pin to which external capacitor for RF signal bottom holding is connected.
62	LDD	O	APC circuit output pin.
63	LDS	I	APC circuit input pin.
64	VCC1	—	RF system Vcc pin.

Pin No.	Pin Name	I/O	Description	
1	DEFI	I	Defect sense signal (DEF) input pin. (Connect to 0V when not used)	
2	TAI	I	For PLL.	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
3	PDO	O		Phase comparator output pin to control external VCO.
4	VVSS	—		GND pin for built-in VCO. Be sure to connect to 0V.
5	ISET	I		Pin to which external resistor adjusting the PD0 output current.
6	VVDD	—		Power supply pin for built-in VCO.
7	FR	I		Pin for VCO frequency range adjustment.
8	VSS	—	Digital system GND. Be sure to connect to 0V.	
9	EFMO	O	For slice level control.	EFM signal output pin.
10	EFMIN	I		EFM signal input pin.
11	T2	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
12, 13	CLV+, CLK-	O	Disc motor control output. Three level output is possible using command.	
14	$V/\overline{P}$	O	Rough servo or phase control automatic selection monitoring output pin. Rough servo at H. Phase servo at L.	
15	HFL	I	Track detect signal input pin. Schmidt input.	
16	TES	I	Tracking error signal input pin. Schmidt input.	
17	TOFF	O	Tracking OFF output pin.	
18	TGL	O	Tracking gain selection output pin. Gain boost at L.	
19, 20	JP+, JP-	O	Track jump control signal output pin. Three level output is possible using command.	
21	PCK	O	EFM data playback clock monitoring pin 4.3218 MHz when phase is locked in. (Not connected)	
22	FSEQ	O	Sync signal detection output pin. H when the sync signal which is detected from EFM signal and thesync signal which is internally generated agree. (Not connected)	
23	VDD	—	Digital system power supply pin.	
24	SL+	O	Moves the sled to outer circumference.	
25	SL-	O	Moves the sled to inner circumference.	
26	PCK	I/O	General purpose input/output pin.	
27	PUIN	I	CD pickup inner switch detection.	
28	RW	O	Read, wright signal.	
29	EMPH	O	De-emphasis monitor output pin. De-emphasis disc is being played back at H. (Not connected)	
30	C2F	O	C2 flag output pin. (Not connected)	
31	DOUT	O	DIGITAL OUT output pin. (EIAJ format) (Not connected)	
32, 33	T3, T4	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
34	N.C.	—	Not connected. Set the pin to open.	
35	MUTEL	O	L-channel 1-bit DAC.	L-channel mute output pin. (Not connected)
36	LVDD	—		L-channel power supply pin.
37	LCHO	O		L-channel output pin.
38	LVSS	—		L-channel GND. Be sure to connect to 0V.
39	RVSS	—	R-channel 1-bit DAC.	R-channel GND. Be sure to connect to 0V.
40	RCHO	O		R-channel output pin.
41	RVDD	—		R-channel power supply pin.
42	MUTER	O		R-channel mute output pin. (Not connected)

Pin No.	Pin Name	I/O	Description
43	XVDD	—	Crystal oscillator power supply pin.
44	XOUT	O	Pin to which external 16.9344 MHz crystal oscillator is connected.
45	XIN	I	
46	XVSS	—	Crystal oscillator GND pin. Be sure to connect to 0V.
47	SBSY	O	Subcode block sync signal output pin. (Not connected)
48	EFLG	O	C1, C2, single and dual correction monitoring pin. (Not connected)
49	PW	O	Subcode P, Q, R, S, T, U and W output pin. (Not connected)
50	SFSY	O	Subcode frame sync signal output pin. Falls down when subcode enters standby. (Not connected)
51	SBCK	I	Subcode read clock input pin. Schmidt input. (Be sure to connected to 0V when not in use)
52	FSX	O	Pin outputting the 7.35 kHz sync signal which is generated by dividing frequency of crystal oscillator. (Not connected)
53	WRQ	O	Subcode Q output standby output pin.
54	RWC	I	Read/write control input pin. Schmidt input.
55	SQOUT	O	Subcode Q output pin.
56	COIN	I	Command input pin from microprocessor.
57	$\overline{\text{CQCK}}$	I	Command input read clock or subcode read input clock from SQOUT pin.
58	RES	I	LC78622 reset input pin. Set this pin to L once when the main power is turned on.
59	T11	O	Test signal output pin. Use this pin as open (normally L output) (Not connected)
60	16M	O	16.9344 MHz output pin. (Not connected)
61	4.2M	O	4.2336 MHz output pin.
62	T5	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
63	$\overline{\text{CS}}$	I	Chip select signal input pin with built-in pull-down resistor. Be sure to connect to 0V while it is not controlling.
64	T1	I	Test signal input pin without built-in pull-down resistor. Be sure to connect to 0V.

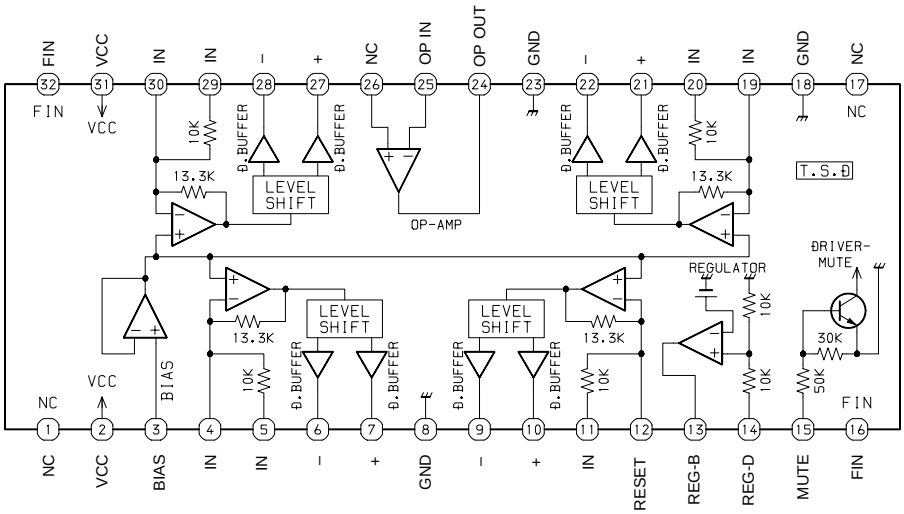
IC DESCRIPTION-3/3 (LC867132V-5V81)-1/2

Pin No.	Pin Name	I/O	Description
1	O-CE	O	PLL control output.
2	O-DATA	O	Data output to SOUND PROCESSOR.
3	O-CLK	O	Output CLK to SOUND PROCESSOR.
4	O-BL	O	LCD back light control output.
5	O-CLKSFT	O	Clock shift output of the microcomputer.
6	I-STIND	I	TUNER STEREO detection input.
7	I-$\overline{\text{RST}}$	I	Microcomputer reset.
8	XT1 (IN)	I	Connected to 32.768KHZ crystal oscillator.
9	XT2 (OUT)	O	
10	VSS1	—	GND.
11	CF1 (IN)	I	Connected to 5.768MHZ Ceramic Filter.
12	CF2 (OUT)	O	
13	VDD1	—	Power supply for microcomputer (+5V).
14	I-ACOFF	I	Power supply detection input.
15	I-KEYO	I	KEY AD input.
16	I-CD SW	I	CD DOOR (OPEN/CLOSE) status detection input.
17	I-ENC	I	ROTALY ENCODER detection input.
18	I-KEY1	I	KEY detection input.
19	I-DSW	I	DECK MECHA status detection input.
20	I-CTSW	I	CT TRAY (OPEN/CLOSE) status detection input.
21	I-CLR	I	Data input from tuner PLL.
22	O-CD OPEN	O	CD DOOR control output.
23	O-CD CLOSE	O	CD DOOR control output.
24	O-CT OPEN	O	CT tray contorol output.
25	O-CT CLOSE	O	CT tray contorol output.
26	I-DRF	I	CD RF level detection input.
27	I-WRQ	I	CD sub-code Q standby input.
28	I-RMT	I	Remote control input.
29	S0	O	LCD segment output.
30	S1	O	LCD segment output.
31	S2	O	LCD segment output.
32	S3	O	LCD segment output.
33	S4	O	LCD segment output.
34	S5	O	LCD segment output.
35	S6	O	LCD segment output.
36	S7	O	LCD segment output.
37-40	S8-S11	O	LCD segment output.
41	VDD3	—	Power supply for microcomputer (+5V).
42	VSS3	—	GND.
43-60	S12-S31	O	LCD segment output.

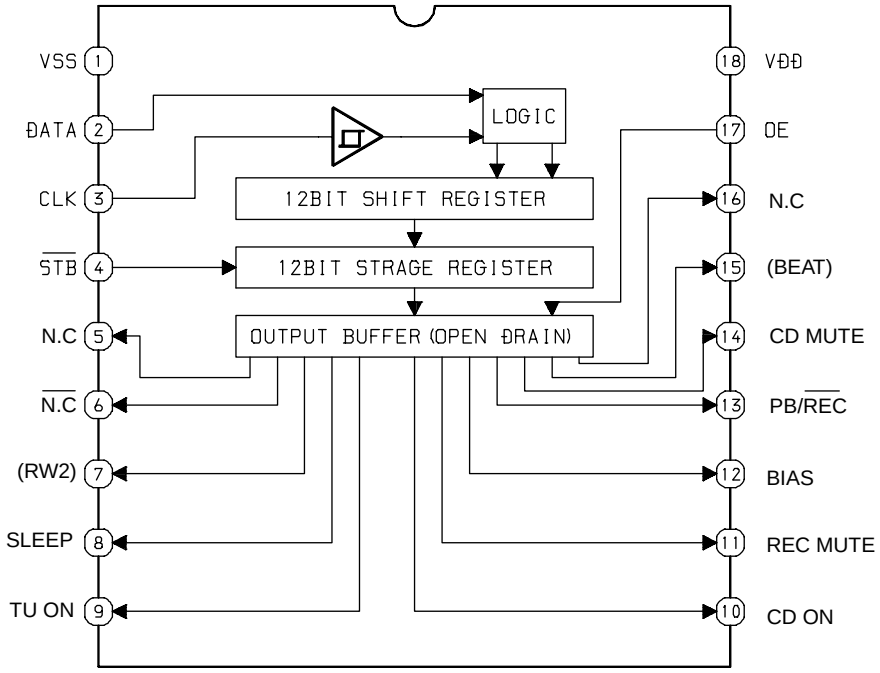
Pin No.	Pin Name	I/O	Description
61	I-CAM	I	DECK MECHA control input.
62	I-AS	I	DECK MECHA control input.
63	I-TUDO	I	PLL control input.
64-66	COM0-COM2	O	LCD common output.
67	I-DET	I	CD tray lock status detection input.
68	VSS2	—	GND.
69	VDD2	—	Power supply for microcomputer (+5V).
70	O-PL	O	DECK MECHA PL control output.
71	O-MOT	O	DECK MECHA MOTOR control output.
72	O-AON	O	Power amp control output.
73	O-POWER	O	Power supply control output.
74	O-MUTE	O	Main mute output.
75	O-RWC	O	CD control output.
76	O-STB	O	shift resistor control output.
77	O-TU DI	O	TUNER DI output.
78	O-COIN	O	CD command output.
79	I-SQOUT	I	CD sub-code Q input.
80	O-CQCK	O	CLK for CD commands/sub-codes.

IC BLOCK DIAGRAM-1/3

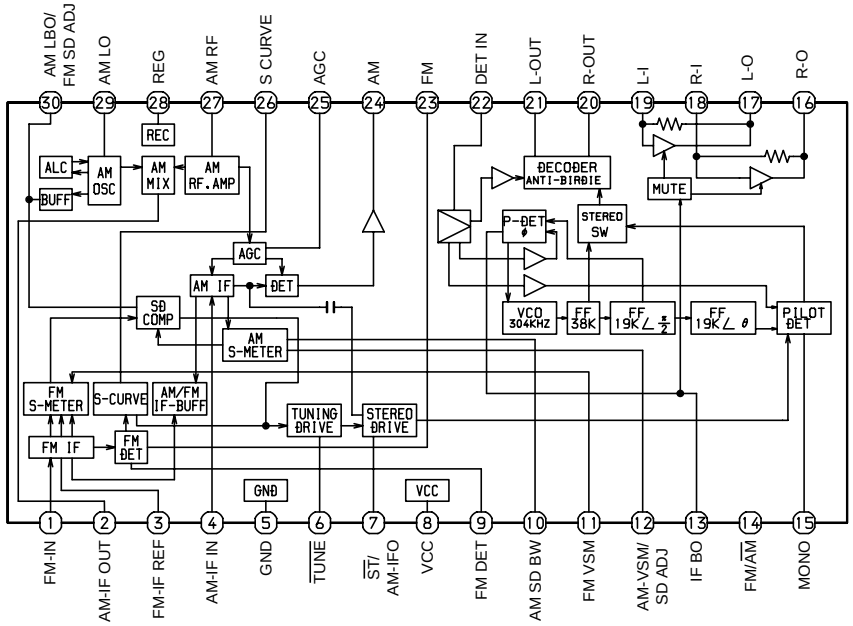
IC, BA6898S



IC, BU2092F

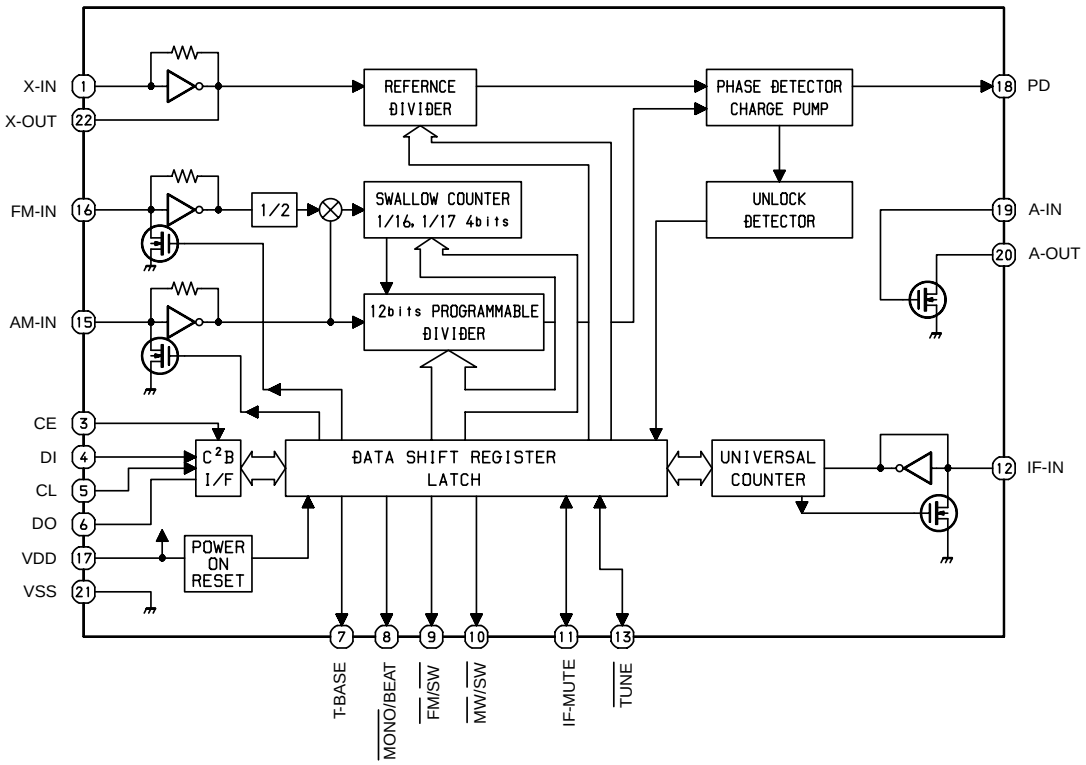


IC, LA1837NL

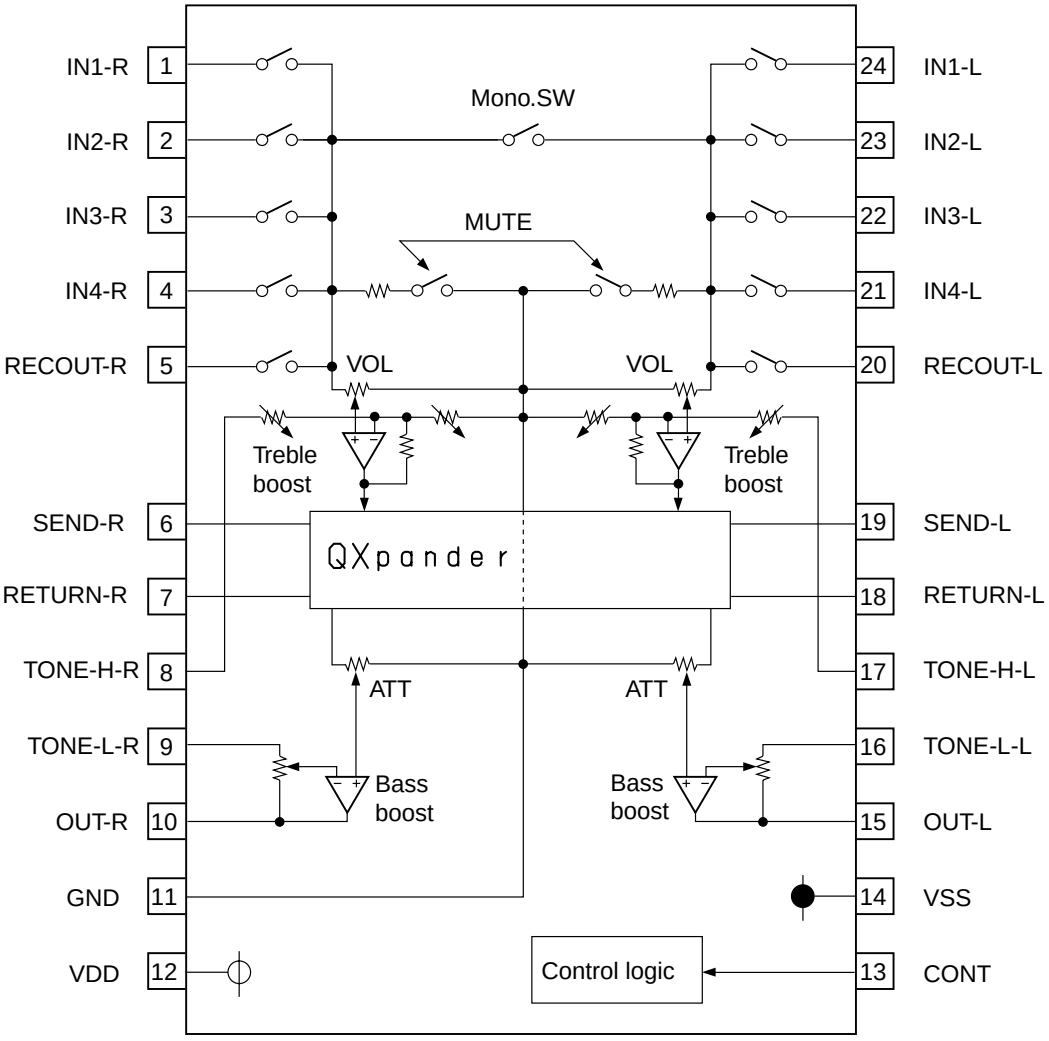


IC BLOCK DIAGRAM-2/3

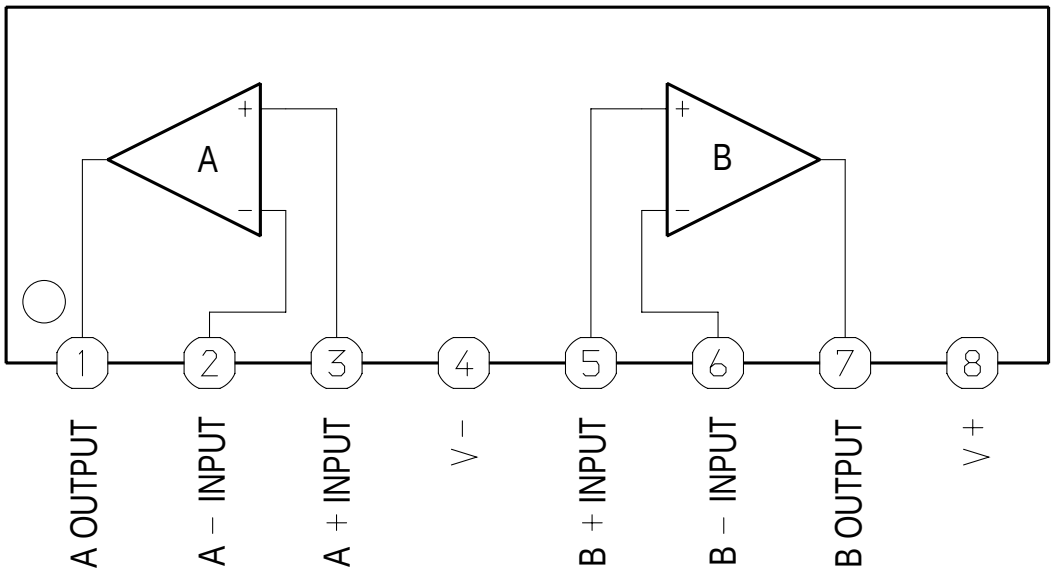
IC, LC72131D



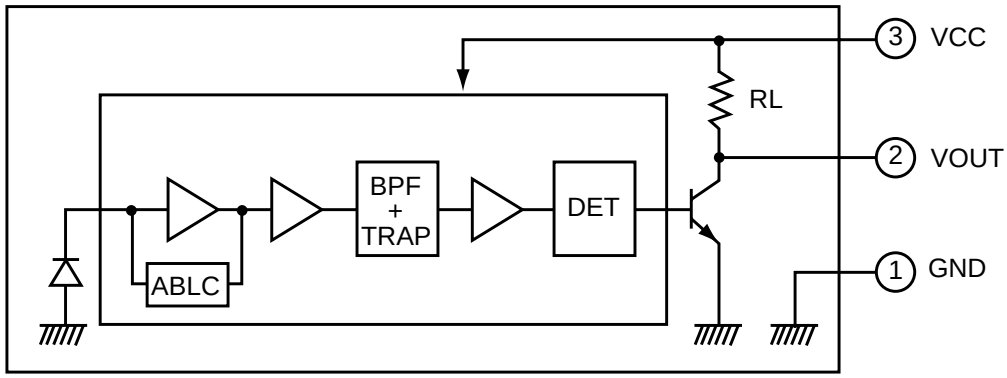
IC, M61500FP



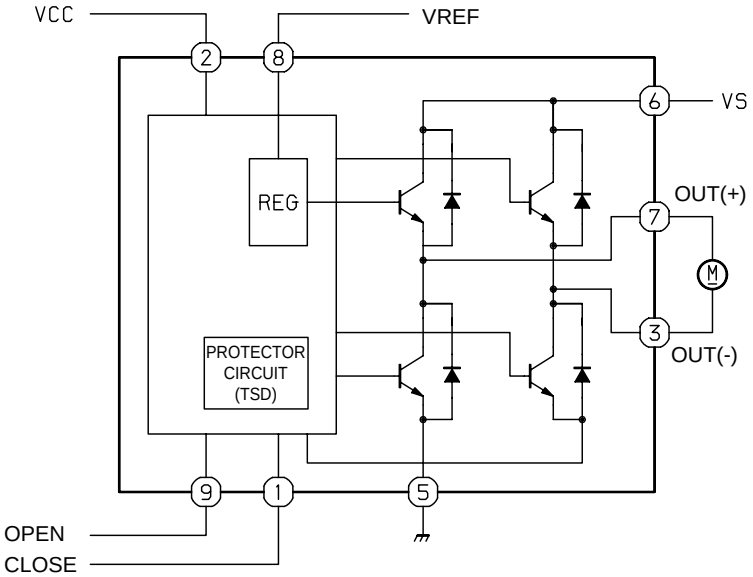
IC BLOCK DIAGRAM-3/3
IC, NJM14558LD



IC, SPS-442-1-F1



IC, TA7291S

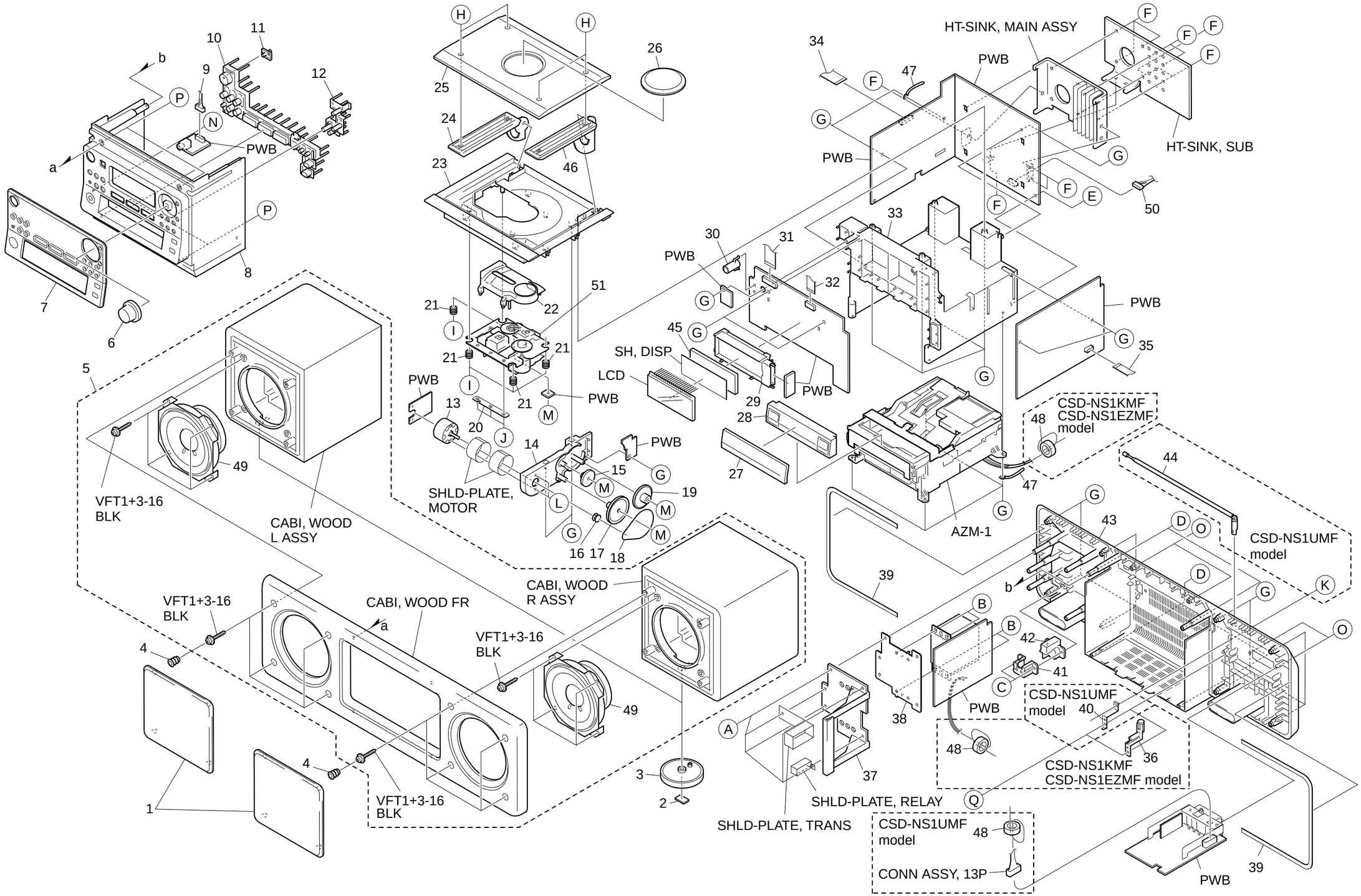


INPUT		OUTPUT		MODE
OPEN	CLOSE	OUT(+)	OUT(-)	
0	0	∞	∞	STOP
1	0	H	L	CW/CCW
0	1	L	H	CCW/CW
1	1	L	L	BRAKE

∞ : HI IMPEDANCE

NOTE : INPUT "H" ACTIVE

MECHANICAL EXPLODED VIEW-1/1



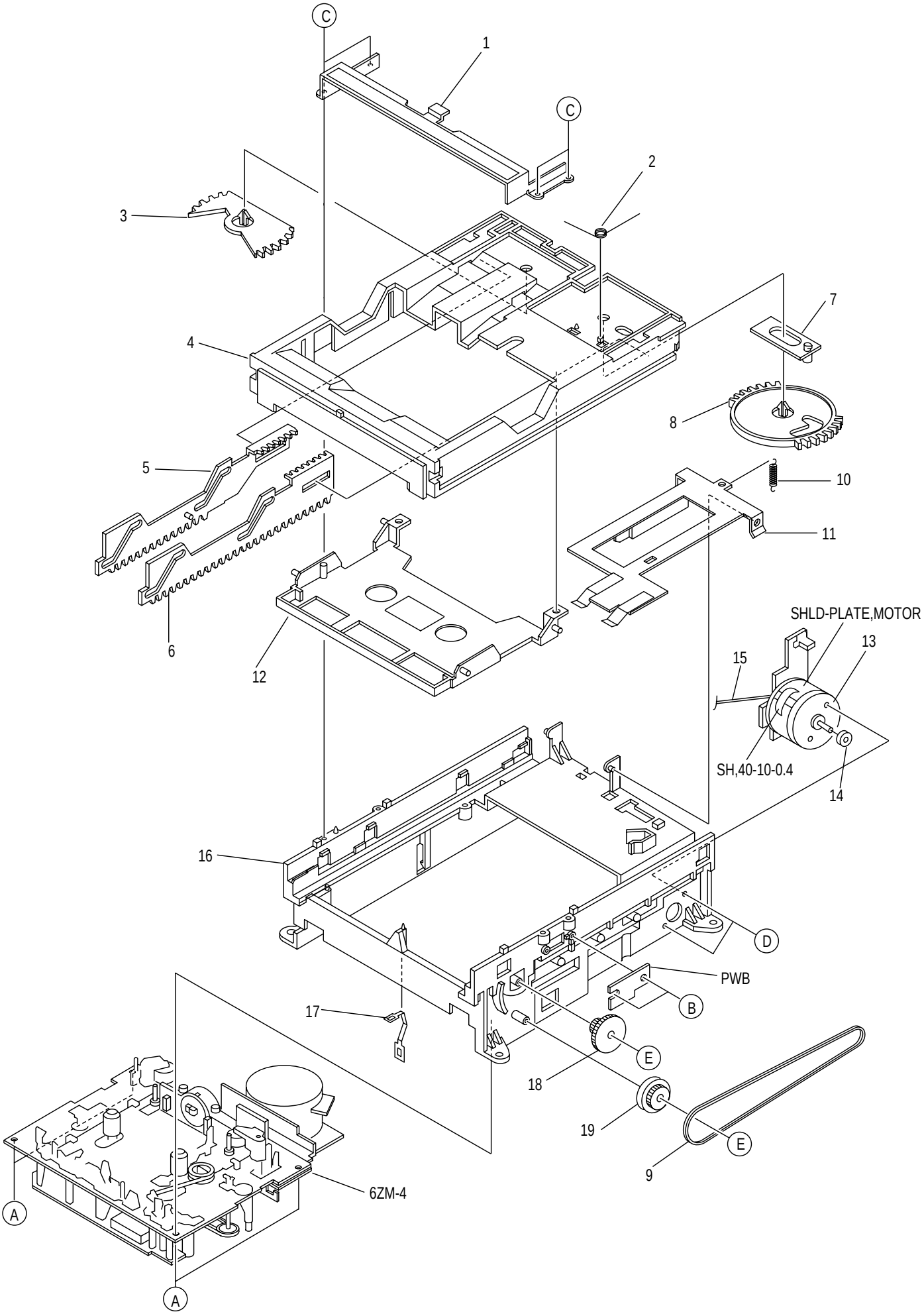
MECHANICAL PARTS LIST-1/1

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8B-CH1-029-010		FRAME,NET CLR ASSY
2	80-VT1-202-010		FELT,12.5-15.5-2
3	8B-CH1-020-010		CABI,FOOT
4	8B-CH1-022-010		HLDR,NET
5	8B-CH1-048-010		CABI,WOOD ASSY
6	8B-CH1-017-010		KNOB,RTRY JOG
7	8B-CH1-011-010		WINDOW,DISP
8	8B-CH1-004-010		CABI,FR<EXCEPT CSD-NS1UMF>
8	8B-CH1-031-010		CABI,FR U<CSD-NS1UMF>
9	8B-CH1-650-010		CONN ASSY,7P V HP L
10	8B-CH1-013-010		BTN,POWER
11	8B-CH1-019-010		LENS,POWER
12	8B-CH1-014-010		BTN,JOG
13	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
14	8B-CH1-206-010		HLDR,GEAR
15	8B-CH1-208-010		GEAR,B
16	8B-CH1-210-010		PULLEY,MOTOR
17	8B-CH1-209-010		GEAR,C
18	8Z-CL1-212-010		BELT,CD
19	8B-CH1-207-010		GEAR,A
20	8B-CH1-082-010		PLATE, CD
21	88-CH6-220-010		CUSHION,CD A
22	88-CH6-019-110		PANEL,CD
23	8B-CH1-006-010		CHAS,CD<EXCEPT CSD-NS1UMF>
23	8B-CH1-068-010		CHAS,CD U<CSD-NS1UMF>
24	8B-CH1-036-010		BOX,CD L
25	8B-CH1-012-010		WINDOW,CD<EXCEPT CSD-NS1UMF>
25	8B-CH1-030-010		WINDOW,CD U<CSD-NS1UMF>
26	8B-CH1-008-010		COVER, CD
27	8B-CH1-010-010		WINDOW,CASS
28	8B-CH1-009-010		PANEL,CASS
29	8B-CH1-205-010		HLDR, DISP
30	8B-CH1-212-010		HLDR, LED
31	88-916-301-110		FF-CABLE,16P 1.25(NOMAL)
32	88-910-401-110		FF-CABLE,10P 1.25
33	8B-CH1-201-010		CHAS,CENTER
34	8B-CH1-624-010		FF-CABLE,16P - 1.0 CD
35	88-905-161-110		FF-CABLE,5P 1.25 160MM
36	8B-CH1-038-010		CAP, ANT<EXCEPT CSD-NS1UMF>
37	8B-CH1-211-010		HLDR,PWB
38	8B-CH1-214-010		HLDR,PT
39	8B-CH1-219-010		PLATE,CLOSE
40	8B-CH1-213-010		HLDR,ANT<CSD-NS1UMF>
41	87-A92-235-010		COVER, AC JACK MORNIN
⚠ 42	87-A61-455-010		JACK,AC E PSE27<EXCEPT CSD-NS1UMF>
⚠ 42	87-A60-177-010		JACK,AC U W/SW<CSD-NS1UMF>
43	8B-CH1-033-010		CABI,REAR EZ<EXCEPT CSD-NS1UMF>
43	8B-CH1-032-010		CABI,REAR U<CSD-NS1UMF>
44	87-A92-151-010		ANT,ROD 5SEC709<CSD-NS1UMF>
45	8B-CH1-015-010		LENS, DISP
46	8B-CH1-074-010		BOX,CD R D
47	87-064-185-010		HLDR,WIRE
48	87-003-317-010		F-BEAD,F0H2515-LG7
49	8B-CH1-645-010		SPKR,100MM 4OHM WHTBCH-1
50	8B-CH1-635-010		CONN ASSY,4P V SP
51	M8-8ZK-391-070		KSM-213 CJM
A	87-661-100-410		VFT1+3-16
B	87-067-566-010		TAPPING SCREW, VFTT+3-6
C	87-352-075-210		VT2+2.6-10
D	87-651-104-410		VT1+3-30
E	87-067-584-010		TAPPING SCREW, BVT2+3-6
F	87-741-095-410		UT2+3-8 SLOT
G	87-751-097-410		VT2+3-12 W/O SLOT
H	8Z-CL1-034-010		S-SCREW,ZCL1
I	8Z-CK5-222-010		S-SCREW,CD+2.6-6 F9
J	87-651-034-410		VT1+2-5
K	87-254-097-410		U+3-12 CR<CSD-NS1UMF>
L	87-261-071-410		V+2.6-4
M	87-067-520-010		TAPPING SCREW, VFTT+2-6
N	87-067-945-110		VFT2+3-12(F10)
O	87-B10-269-010		UT2+3-12 W/O CR
P	87-651-097-410		VT1+3-12 GLD
Q	87-741-095-410		UT2+3-8 GLD

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange	GM	Metallic Green
YM	Metallic Yellow	DM	Metallic Orange	PT	Transparent Pink
LA	Aqua Blue	GL	Light Green		

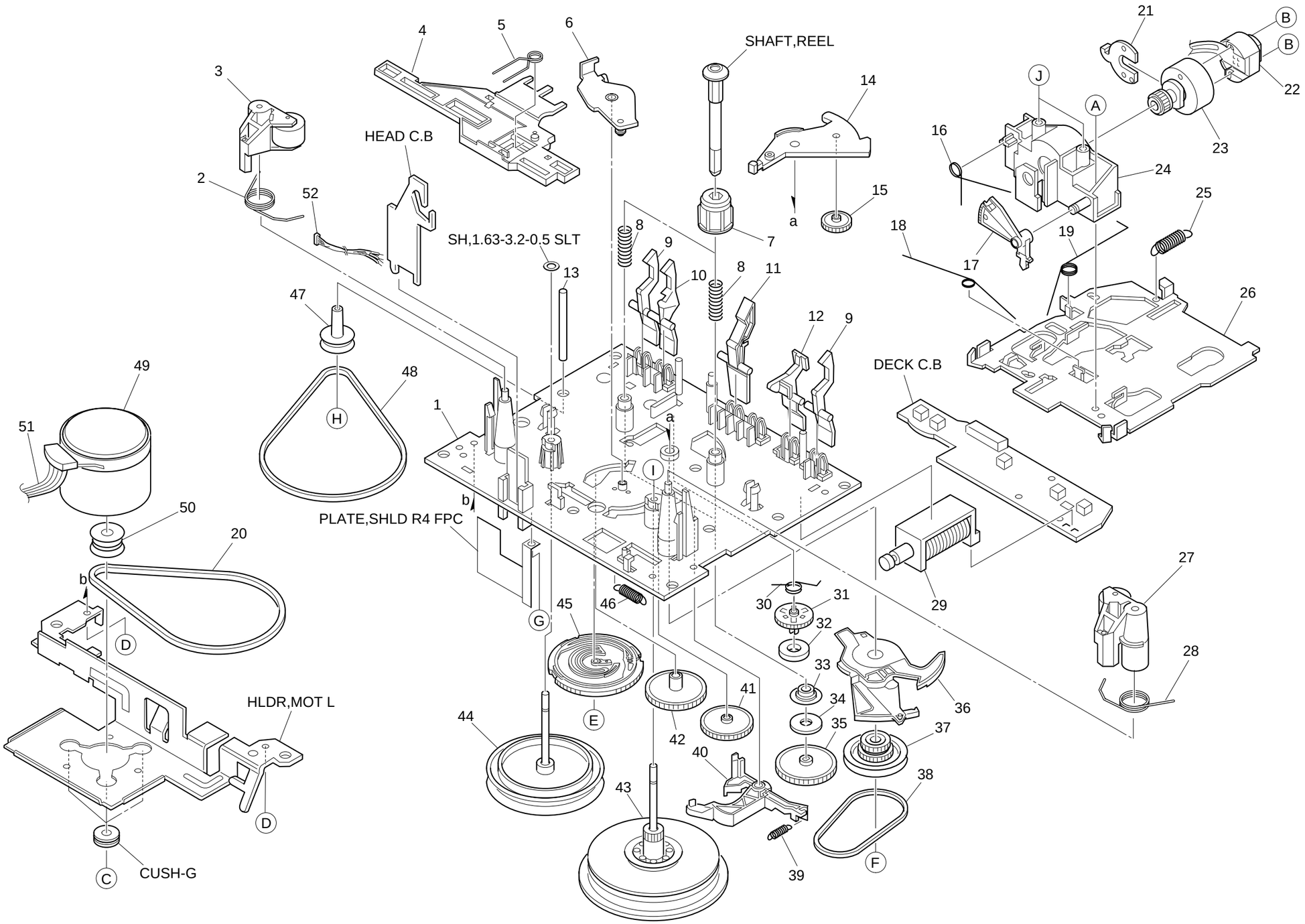
TAPE MECHANISM EXPLODED VIEW-1/2 (AZM1A1NF)



TAPE MECHANISM PARTS LIST-1/2 (AZM1A1NF)

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	8A-ZM1-214-010		PLATE,F STOPPER
2	8A-ZM1-223-010		SPR-T,LOCK F
3	8A-ZM1-209-010		GEAR,SLIDE B
4	8A-ZM1-203-010		FRAME,MAIN
5	8A-ZM1-215-010		LEVER ASSY,SLIDE L
6	8A-ZM1-217-010		LEVER ASSY,SLIDE R
7	8A-ZM1-212-010		LEVER,LOCK F
8	8A-ZM1-208-010		GEAR,SLIDE A
9	8A-ZM1-230-010		BELT,BASE
10	8A-ZM1-220-010		SPR-E,CLAMP
11	8A-ZM1-216-010		PLATE ASSY,CLAMP
12	8A-ZM1-204-010		TRAY,CASSETTE
13	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
14	86-ZL1-210-010		PULLEY,MOT
15	8Z-ZG4-614-010		F-CABLE,2P 130MM LED
16	8A-ZM1-202-010		BASE,
17	86-ZL1-214-010		SPR-P,CASS
18	8A-ZM1-207-010		GEAR,FRAME
19	8A-ZM1-213-010		GEAR,PULLEY
A	87-067-660-010		TAPPING SCREW, BVT2+3-8
B	88-ZG5-302-010		S-SCREW,8ZG5+2-4 W/O
C	88-ZG5-317-010		S-SCREW,8ZG5S+2-4 W/O
D	87-251-072-410		U+2.6-5
E	8A-ZM1-240-010		S-SCREW, GEAR F/P

TAPE MECHANISM EXPLODED VIEW-2/2 (6ZM4R4N)



TAPE MECHANICSM PARTS LIST-2/2 (6ZM4R4N)

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM1-358-010		CHAS ASSY,FPC
2	82-ZM1-258-210		SPR-T,PINCH L
3	82-ZM1-363-010		LEVER,ASSY PINCH LD
4	82-ZM1-266-310		LVR,DIR
5	82-ZM1-214-010		SPR-T,DIR
6	82-ZM1-333-210		PLATE,LINK2
7	86-ZM1-203-010		CAP,REEL
8	86-ZM1-221-010		SPR-C,BT 2L
9	82-ZM1-240-110		LVR,REC(*)
10	82-ZM1-241-310		LVR,MC
11	82-ZM1-242-010		LVR,CAS
12	82-ZM1-243-010		LVR,STOP
13	82-ZM3-339-110		SHAFT,COUPLER N3
14	82-ZM1-222-310		LVR,PLAY(*)
15	82-ZM1-223-010		GEAR,PLAY
16	82-ZM3-353-010		SPR-T,HEAD 2
17	82-ZM1-210-110		GEAR,H T
18	82-ZM1-269-210		SPR-T,BRG
19	82-ZM1-219-110		SPR-T,LINK
20	86-ZM1-217-110		BELT,MOT
21	82-ZM1-314-110		PLATE,HEAD
22	87-A90-367-110		HEAD,RPH YK56R-BF414 FPC
23	82-ZM1-208-310		HLDR,HEAD
24	82-ZM1-207-910		GUIDE,TAPE
25	82-ZM1-218-010		SPR-E,HB
26	82-ZM1-206-910		CHAS,HEAD
27	82-ZM1-362-010		LEVER,ASSY PINCH RD
28	82-ZM1-259-210		SPR-T,PINCH R
29	82-ZM3-628-010		SOL ASSY,23 SO
30	82-ZM1-322-010		SPR-T,FR 60
31	82-ZM1-220-210		GEAR,IDLER
32	82-ZM3-616-010		RING MAGNET 4
33	86-ZM1-219-010		CLR,REEL SLIP
34	86-ZM1-220-010		FELT,DIA 5.3-14-0.8
35	82-ZM1-216-510		GEAR,REEL
36	82-ZM1-224-410		LVR,FR
37	82-ZM3-333-310		SLIP DISK ASSY 2
38	82-ZM1-338-110		BELT,FR 4
39	82-ZM1-305-210		SPR-E,TRIG 2
40	82-ZM1-227-310		LVR,TRIG
41	82-ZM1-225-210		GEAR,FR
42	82-ZM1-226-010		GEAR,REW
43	86-ZM4-214-010		FLY-WHL ASSY,R4W
44	86-ZM4-215-010		FLY-WHL ASSY,L4W
45	82-ZM1-221-310		GEAR,CAM(*)
46	82-ZM1-255-310		SPR-E,LVR DIR
47	82-ZM3-335-310		PULLEY,COUPLER M3
48	86-ZM1-206-010		BELT,MAIN L
49	87-A90-343-010		MOT,SHU2R 70
50	82-ZM3-221-210		PULLEY,MOT 2M
51	86-ZM4-601-110		RBN-CORD,4P 300MM
52	86-ZM1-605-010		CONN ASSY, AR3
A	85-ZM3-202-010		S-SCREW,TG
B	80-ZM6-207-010		V+1.6-7
C	82-ZM3-318-110		S-SCREW W,MOTOR M2
D	87-067-178-010		VTT+2.6-3
E	87-B10-008-010		W-P,2.08-8-0.4-SLIP
F	82-ZM3-334-010		PW 2.16-6-0.4
G	82-ZM3-222-010		S-SCREW,SHILD PLATE
H	87-B10-043-010		W-P,0.99-4-0.25 SLT
I	80-ZM6-243-010		SH 1.75-3.6-0.5 SLT
J	86-ZM4-206-110		S-SCREW,AZIMUTH L

ACCESSORIES/PACKAGE LIST-1/1

REF. NO		PART NO.	KANRI NO.	DESCRIPTION
	1	8B-CH1-906-010		IB,EZ(9L)M<CSD-NS1EZMF>
	1	8B-CH1-905-010		IB,K(E)M<CSD-NS1KMF>
	1	8B-CH1-903-010		IB,U(ESF)M<CSD-NS1UMF>
	2	8B-CH1-962-010		RC UNIT,RC-BAT-2
⚠	3	87-050-076-010		AC CORD SET ASSY,E<EXCEPT CSD-NS1UMF>
⚠	3	87-A80-109-010		AC CORD,HK7281 BLK U<CSD-NS1UMF>
	4	87-A92-174-010		ANT,LOOP AM-NC(W)
	4	87-A90-118-010		ANT,WIRE FM (Z)<EXCEPT CSD-NS1UMF>
⚠	5	87-099-726-010		PLUG,ADPTR CONV(K)<CSD-NS1KMF>

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD. 2–11, IKENOHATA 1–CHOME, TAITO-KU, TOKYO 110-8710, JAPAN TEL:03 (3827) 3111

H251701

Printed in Singapore